CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY

REVUE CANADIENNE DE BIOCHIMIE ET BIOLOGIE CELLULAIRE

VOLUME 62, 1984

Author Index / Index des auteurs

Abdel-Latif, A.A.
Studies on the effects of magnesium ion and propranolol on iris muscle phosphatidate phosphohydrolase
Ata A. Abdel-Latif and Jack P. Smith **170**

Adam, M.
Phosphorylation of the transferrin receptor in isolated sheep reticulocyte plasma membranes
Rose M. Johnstone, Mohammed Adam, Claire Turbide, and James Larrick **927**

The fate of the transferrin receptor during maturation of sheep reticulocytes in vitro
R.M. Johnstone, M. Adam, and B.T. Pan **1246**

Ahlers, J.
Effects of different salts on the plasma membrane ATPase and on proton transport in yeast
Jan Ahlers **998**

Almeida, A.F.
Separation of nitrobenzylthioinosine from high affinity binding sites on human erythrocytes by gel chromatography
Alan R.P. Paterson, Anthony F. Almeida, Ewa Dahlig-Harley, Jon P. Miller, and Carol E. Cass **1283**

Appel, S.H.
Calcium-dependent hydrolyses of polyphosphoinositides in human erythrocyte membranes
R. Blaine Moore and Stanley H. Appel **363**

Arthur, G.
The effects of detergents on CDP-choline:1,2-diacylglycerol phosphocholine transferase from hamster heart
Gilbert Arthur, Stanley W. Tam, and Patrick C. Choy **1059**

Atkison, P.R.
Somatomedin-like activity from cultured embryo-derived cells: partial characterization and stimulation of production by epidermal growth factor (urogastrone)
Paul R. Atkison, R. Marvin Bala, and Morley D. Hollenberg **1335**

Production of somatomedin-like activity by human adult tumor-derived, transformed, and normal cell cultures and by cultured rat hepatocytes: effects of culture conditions and of epidermal growth factor (urogastrone)
Paul R. Atkison, L. Joseph Hayden, R. Marvin Bala, and Morley D. Hollenberg **1343**

Aubin, J.E.
Change in phenotype in long-term cultures of a clonal rat bone cell line: switch to the synthesis of α_1(I)-trimer collagen
Hardy Limeback, Kichibee Otsuka, Kam-Ling Yao, Jane E. Aubin, and Jaro Sodek **462**

An osteonectinlike protein in porcine periodontal ligament and its synthesis by periodontal ligament fibroblasts
Safia Wasi, Kichibee Otsuka, Kam-Ling Yao, Pierre S. Tung, Jane E. Aubin, Jaro Sodek, and John D. Termine **470**

Aujame, L.
DNA methylation in differentiating mouse teratocarcinoma and erythroleukemia cells
Luc Aujame, Jane Craig, and Michael W. McBurney **584**

Azzam, E.I.
Inhibition of DMSO-induced differentiation by hyperthermia in a murine erythroleukemia cell system
G.P. Raaphorst, E.I. Azzam, J. Borsa, M. Einspenner, and J.A. Vadasz **1091**

Babiuk, L.A.
Structure of the polysaccharide chain of *Pasteurella haemolytica* (serotype 4) lipopolysaccharide
Malcolm B. Perry and Lorne A. Babiuk **108**

Baccari, V.
On the interaction between synthetic detergents and enzymatic proteins
Cristina Treves, Maria Teresa Vincenzini, Fabio Favilli, Paolo Vanni, and Vincenzo Baccari **55**

Baczynsky, W.O.T.
Biochemical genetics of the mouse IgM system
Marc J. Shulman, Robert G. Hawley, Atsuo Ochi, W.O.T. Baczynsky, Catherine Collins, Nancy Pennell, M.J. Potash, Georges Köhler, and Nobumichi Hozumi **217**

Baker, R.R.
An increased incorporation of fatty acid into triacylglycerols of neuronal nuclei in vitro in the presence of CMP and EGTA
R. Roy Baker and Huu-yi Chang **379**

Bala, R.M.
Somatomedin-like activity from cultured embryo-derived cells: partial characterization and stimulation of production by epidermal growth factor (urogastrone)
Paul R. Atkison, R. Marvin Bala, and
Morley D. Hollenberg **1335**

Production of somatomedin-like activity by human adult tumor-derived, transformed, and normal cell cultures and by cultured rat hepatocytes: effects of culture conditions and of epidermal growth factor (urogastrone)
Paul R. Atkison, L. Joseph Hayden, R. Marvin Bala,
and Morley D. Hollenberg **1343**

Barankiewicz, J.
Purine metabolism in human T lymphocytes: role of the purine nucleoside cycle
Amos Cohen, Jerzy Barankiewicz,
Howard M. Lederman, and Erwin W. Gelfand **577**

Barden, A.
Plasma membranes from *Physarum polycephalum* plasmodia: purification, characterization, and comparison with amoebae plasma membranes
Dominick Pallotta, Anne Barden, Rémi Martel,
Josée Kirouac-Brunet, François Bernier, André Lord,
and Gérald Lemieux **831**

Bates, W.R.
Synthesis of putative microtubule-associated proteins by mouse blastocysts during early outgrowth *in vitro*
William R. Bates and Gerald M. Kidder **885**

Beaudoin, A.R.
Secretagogues cause a preferential discharge of large size granules in rat pancreas
Adrien R. Beaudoin, Gilles Grondin, Mario Filion, and
André Lord **1288**

Beaudry, P.
Modification of biological activities of *Ricinus communis* agglutinin by cross-linking with formaldehyde
E. Turpin, J. Wantyghem, P. Beaudry, D. Néel, and
Y. Goussault **203**

Bégin-Heick, N.
Control mechanisms in brown adipose tissue plasma membrane
N. Bégin-Heick and H.M.C. Heick **631**

The interaction of guanine nucleotides with the adenylate cyclase complex in white adipocyte membranes of lean and obese (ob/ob) mice
Nicole Bégin-Heick **819**

Bernier, F.
Plasma membranes from *Physarum polycephalum* plasmodia: purification, characterization, and comparison with amoebae plasma membranes
Dominick Pallotta, Anne Barden, Rémi Martel,
Josée Kirouac-Brunet, François Bernier, André Lord,
and Gérald Lemieux **831**

Bertrand, H.
The cytochrome oxidase inhibitor azide also inhibits the alternative pathway of *Neurospora crassa*
Peter J. Bridge and Helmut Bertrand **129**

Birchall, K.J.
Effects of heparin fractions of different affinities to antithrombin III and thrombin on the inactivation of thrombin and factor Xa by antithrombin III
Andrew L. Cerskus, Kathy J. Birchall,
Frederick A. Ofosu, Jack Hirsh, and
Morris A. Blajchman **975**

Blajchman, M.A.
Effects of heparin fractions of different affinities to antithrombin III and thrombin on the inactivation of thrombin and factor Xa by antithrombin III
Andrew L. Cerskus, Kathy J. Birchall,
Frederick A. Ofosu, Jack Hirsh, and
Morris A. Blajchman **975**

Blaschuk, O.W.
Isoelectric forms of clusterin isolated from ram rete testis fluid and from secretions of primary cultures of ram and rat Sertoli-cell-enriched preparations
O.W. Blaschuk and I.B. Fritz **456**

Boggs, J.M.
Comparison of metastable phase behavior of the complexes of dipalmitoyl phosphatidylglycerol with Mg^{+2} and myelin basic protein
Joan M. Boggs and M.A. Moscarello **11**

Bols, N.C.
Effect of 12-*O*-tetracanoylphorbol-13-acetate on cell-surface glycosaminoglycans in human diploid fibroblasts
Bruce R. Wolff, Bernard R. Glick, and Niels C. Bols **1354**

Bolyos, M.
Free-flow electrophoresis of the low-density structures that contain asialoglycoproteins in the rat liver
Maria T. Debanne, Maria Bolyos, and Erwin Regoeczi **1051**

Borgeat, P.
Studies on leukotriene B4 ω-oxidation in human leukocytes
Marie Nadeau, Bernard Fruteau de Laclos,
Serge Picard, Pierre Braquet, E.J. Corey, and
Pierre Borgeat **1321**

Borsa, J.
Effects of Ca^{2+} and Mg^{2+} on the switch-on of transcriptase function in reovirus in vitro
M.D. Sargent and J. Borsa **162**

Inhibition of DMSO-induced differentiation by hyperthermia in a murine erythroleukemia cell system
G.P. Raaphorst, E.I. Azzam, J. Borsa, M. Einspenner,
and J.A. Vadasz **1091**

Bouhnik, J.
Kinetic studies of rat renin and tonin on purified rat angiotensinogen
Jolanta Gutkowska, Pierre Corvol,
Amintas F.S. Figueiredo, Tadashi Inagami,
Jacob Bouhnik, and Jacques Genest **137**

Boumah, C.E.
Purine and pyrimidine analogues irreversibly prevent passage of lymphocytes from the G_1 to the S phase of the cell cycle
CHRISTINE E. BOUMAH, GEORGE SETTERFIELD, and J. GORDIN KAPLAN **280**

Boyd, D.A.
Evolutionary stability of mitochondrial DNA organization in *Achlya*
DAVID A. BOYD, THOMAS C. HOBMAN, SALLY A. GRUENKE, and GLEN R. KLASSEN **571**

Bragg, P.D.
The ATPase complex of *Escherichia coli*
PHILIP D. BRAGG **1190**

Braithwaite, C.E.
Heat and nutritional shock-induced proteins of the fungus *Achlya* are different and under independent transcription control
HERB B. LEJOHN and CLEANTIS E. BRAITHWAITE **837**

Brakier-Gingras, L.
The control of accuracy during protein synthesis in *Escherichia coli* and perturbations of this control by streptomycin, neomycin, or ribosomal mutations
LÉA BRAKIER-GINGRAS and PAULINE PHOENIX **231**

Braquet, P.
Studies on leukotriene B4 ω-oxidation in human leukocytes
MARIE NADEAU, BERNARD FRUTEAU DE LACLOS, SERGE PICARD, PIERRE BRAQUET, E.J. COREY, and PIERRE BORGEAT **1321**

Breckenridge, W.C.
Apolipoprotein C-II deficiency associated with nonfunctional mutant forms of apolipoprotein C-II
GRAHAM F. MAGUIRE, J. ALICK LITTLE, GARY KAKIS, and W. CARL BRECKENRIDGE **847**

Bricage, P.
Caractéristiques fonctionnelles des activités peroxydasiques des feuilles et cals d'une plante à métabolisme acide crassulacéen, *Pedilanthus tithymaloides variegatus*, Euphorbiaceae
PIERRE BRICAGE **901**

Bridge, P.J.
The cytochrome oxidase inhibitor azide also inhibits the alternative pathway of *Neurospora crassa*
PETER J. BRIDGE and HELMUT BERTRAND **129**

Briones-Urbina, R.
Anti-idiotyptic antibodies as probes for hormone–receptor interaction
NADIR R. FARID, ROSARIO BRIONES-URBINA, and M. NAZRUL ISLAM **1255**

Brissette, L.
An *in vitro* model to study lipolysis of rat hepatic very low density lipoprotein using cardiac lipoprotein lipase
LOUISE BRISSETTE and SIMON-PIERRE NOËL **1076**

Brockhausen, I.
Mucin synthesis. The action of pig gastric mucosal UDP-GlcNAc:Galβ1-3(R_1)GalNAc-R_2 (GlcNAc to Gal) β3-*N*-acetylglucosaminyltransferase on high molecular weight substrates
INKA BROCKHAUSEN, JEANNE ORR, and HARRY SCHACHTER **1081**

Brooks, S.P.J.
Theory and practical application of coupled enzyme reactions: one and two auxiliary enzymes
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **945**

Theory and practical application of coupled enzyme systems: one and two coupling enzymes with mutarotation of an intermediate
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **956**

Brousseau, R.
The human preproinsulin gene: synthesis, cloning, gene modification, and expression studies
S.A. NARANG, R. BROUSSEAU, F. GEORGES, J. MICHNIEWICZ, G. PREFONTAINE, J. STAWINSKI, and W. SUNG **209**

Bugeja, F.X.
Rapid sensitive fluorescence assays for DNA endonucleases and DNA glycosylases
D.H. EVANS, F.X. BUGEJA, B.J. YACYSHYN, and A.R. MORGAN **1275**

Bukowiecki, L.J.
Mechanisms of stimulus-calorigenesis coupling in brown adipose tissue
LUDWIK J. BUKOWIECKI **623**

Burtnick, L.D.
Modification of actin with 2-(*N*-methylanilino)naphthalene-6-sulfonyl chloride
L.D. BURTNICK and C.D. ISAAC **191**

Cadenhead, D.A.
Molecular packing in steroid–lecithin monolayers. IV. Mixed films of epicoprostanol with dipalmitoyl phosphatidylcholine
D.A. CADENHEAD and F. MÜLLER-LANDAU **732**

Callahan, J.W.
Human placental β-galactosidase: structural and immunological observations
CHRISTOPHER S. JONES, DONALD MAHURAN, J. ALEXANDER LOWDEN, and JOHN W. CALLAHAN **529**

Capone, J.
Association of the nucleocapsid protein N of vesicular stomatitis virus with phospholipid vesicles containing the matrix protein M
JOHN CAPONE and HARA P. GHOSH **1174**

Caroff, M.
The specific capsular polysaccharide of *Streptococcus pneumoniae* type 15A (American type 30)
MARTINE CAROFF and MALCOLM B. PERRY **151**

Caskey, J.J.
The method used in purification of nuclei from three variant cell lines of the Shionogi mouse mammary carcinoma alters their uptake of dihydrotestosterone
YVONNE A. LEFEBVRE, JANICE J. CASKEY, and LINDA D. KLINE **121**

Cass, C.E.
Separation of nitrobenzylthioinosine from high affinity binding sites on human erythrocytes by gel chromatography
ALAN R.P. PATERSON, ANTHONY F. ALMEIDA, EWA DAHLIG-HARLEY, JON P. MILLER, and CAROL E. CASS **1283**

Cates, G.A.
Inhibition of fusion of skeletal myoblasts by tunicamycin and its reversal by *N*-acetylglucosamine
G.A. Cates, H. Kaur, and B.D. Sanwal **28**

Celi, B.
Evaluation of the fatty acid selectivity of a phosphatidylinositol-specific cytosolic phospholipase C from pig and human platelets
Bruce J. Holub and Bernadette Celi **115**

Cella, R.
The heme moiety in peanut peroxidase
R.N. Chibbar, R. Cella, and R.B. Van Huystee **1046**

Cerskus, A.L.
Effects of heparin fractions of different affinities to antithrombin III and thrombin on the inactivation of thrombin and factor Xa by antithrombin III
Andrew L. Cerskus, Kathy J. Birchall, Frederick A. Ofosu, Jack Hirsh, and Morris A. Blajchman **975**

Chang, H.-y.
An increased incorporation of fatty acid into triacylglycerols of neuronal nuclei in vitro in the presence of CMP and EGTA
R. Roy Baker and Huu-yi Chang **379**

Chapdelaine, P.
Synthesis of acid phosphatase and other proteins by human prostatic tissue in vitro
J.Y. Dubé, P. Chapdelaine, R.R. Tremblay, M. Thabet, and R. Roy **555**

Chatterjee, S.
Glycosphingolipids and plasma lipoproteins: a review
Subroto Chatterjee and Peter O. Kwiterovich, Jr. **385**

Cheung, M.O.
Hexose transport in plasma membrane vesicles of rat myoblast L6
Matthias O. Cheung and Theodore C.Y. Lo **1217**

Chibbar, R.N.
The heme moiety in peanut peroxidase
R.N. Chibbar, R. Cella, and R.B. Van Huystee **1046**

Chindemi, P.A.
Partial resialylation of human asialotransferrin types 1 and 2 in the rat
Erwin Regoeczi, Paul A. Chindemi, and Maria T. Debanne **853**

Chow, A.W.L.
A two-dimensional immunoelectrophoretic analysis of the heat-shock response exhibited by *Neurospora crassa* cells
M. Kapoor and A.W.L. Chow **691**

Choy, P.C.
The effects of detergents on CDP-choline:1,2-diacylglycerol phosphocholine transferase from hamster heart
Gilbert Arthur, Stanley W. Tam, and Patrick C. Choy **1059**

The hydrolysis of phosphatidylcholine by phospholipase A_2 in hamster heart
Stanley W. Tam, Ricky Y.K. Man, and Patrick C. Choy **1269**

Christensen, P.
Purification, properties, and N-terminal amino acid sequence of certain 50S ribosomal subunit proteins from the archaebacterium *Halobacterium cutirubrum*
Alastair T. Matheson, Makoto Yaguchi, Patricia Christensen, C. Fernand Rollin, and Sadiq Hasnain **426**

Chung, W.
Characterization of an isozyme of *S*-adenosylmethionine synthetase from rat liver
C.H. Lin, W. Chung, K.P. Strickland, and A.J. Hudson **276**

Cohen, A.
Purine metabolism in human T lymphocytes: role of the purine nucleoside cycle
Amos Cohen, Jerzy Barankiewicz, Howard M. Lederman, and Erwin W. Gelfand **577**

Cohen, S.L.
Abnormal excretion of oestrogens in complicated pregnancies
Saul L. Cohen and Patrick Ho **547**

Collins, C.
Biochemical genetics of the mouse IgM system
Marc J. Shulman, Robert G. Hawley, Atsuo Ochi, W.O.T. Baczynsky, Catherine Collins, Nancy Pennell, M.J. Potash, Georges Köhler, and Nobumichi Hozumi **217**

Congote, L.F.
Effects of erythropoietin on uridine metabolism in cell cultures of fetal calf liver
L.F. Congote **143**

Corey, E.J.
Studies on leukotriene B4 ω-oxidation in human leukocytes
Marie Nadeau, Bernard Fruteau de Laclos, Serge Picard, Pierre Braquet, E.J. Corey, and Pierre Borgeat **1321**

Corvol, P.
Kinetic studies of rat renin and tonin on purified rat angiotensinogen
Jolanta Gutkowska, Pierre Corvol, Amintas F.S. Figueiredo, Tadashi Inagami, Jacob Bouhnik, and Jacques Genest **137**

Craig, J.
DNA methylation in differentiating mouse teratocarcinoma and erythroleukemia cells
Luc Aujame, Jane Craig, and Michael W. McBurney **584**

Dahlig-Harley, E.
Separation of nitrobenzylthioinosine from high affinity binding sites on human erythrocytes by gel chromatography
Alan R.P. Paterson, Anthony F. Almeida, Ewa Dahlig-Harley, Jon P. Miller, and Carol E. Cass **1283**

Dansereau, J.
Carrier-mediated ion transport in lipid bilayer membranes
Raynald Laprade, François Grenier, Monique Pagé-Dansereau, and Janine Dansereau **738**

Das, D.V.M.
Studies on the unmasking of membrane-bound alkaline phosphatase during the differentiation of *Dictyostelium discoideum*
D.V. Mohan Das and Gerald Weeks **970**

Debanne, M.T.
Partial resialylation of human asialotransferrin types 1 and 2 in the rat
ERWIN REGOECZI, PAUL A. CHINDEMI, and MARIA T. DEBANNE **853**

Free-flow electrophoresis of the low-density structures that contain asialoglycoproteins in the rat liver
MARIA T. DEBANNE, MARIA BOLYOS, and ERWIN REGOECZI **1051**

Delaunay, T.
Interactions calmoduline–lipides: étude de l'encapsulation de la protéine en chromatographie liquide
HENRI KERCRET, THIERRY DELAUNAY et JACQUES DUVAL **648**

Deschodt-Lanckman, M.
Cross-reactivity of a monoclonal anti-[Met^5]enkephalin antibody with cholecystokinin peptides
MONIQUE DESCHODT-LANCKMAN and PIERRE PONTAROTTI **1097**

DiBattista, J.A.
A detailed investigation of the cytoplasmic cortisol-binding receptor of North American eel (*Anguilla rostrata*) tissues
JOHN A. DIBATTISTA, A.Z. MEHDI, and THOMAS SANDOR **991**

Dixon, G.H.
Transcription of a trout protamine gene *in vitro*: the effects of alteration of promoters
JACEK M. JANKOWSKI and GORDON H. DIXON **291**

Dorrington, K.J.
Luminescence and circular-dichroism analysis of terbium binding by pig intestinal calcium-binding protein (relative mass = 9000)
JOE D.J. O'NEIL, KEITH J. DORRINGTON, and THEO HOFMANN **434**

Douglas, P.E.
The induction of α-amylase by starch in *Aspergillus oryzae*: evidence for controlled mRNA expression
J.A. ERRATT, P.E. DOUGLAS, F. MORANELLI, and V.L. SELIGY **678**

Dryden, E.E.
The determination of calcium-binding sites of human erythrocyte membranes
R. BLAINE MOORE, E.E. DRYDEN, D.I.C. KELLS, and J.F. MANERY **398**

Characteristics of skeletal muscle ecto-ATPase *in situ*
J.F. MANERY, E.E. DRYDEN, J.S. STILL, and G. MADAPALLIMATTAM **1015**

Dubé, J.Y.
Synthesis of acid phosphatase and other proteins by human prostatic tissue in vitro
J.Y. DUBÉ, P. CHAPDELAINE, R.R. TREMBLAY, M. THABET, and R. ROY **555**

Duronio, V.
Activation of hexose transport by antibody
THEODORE C.Y. LO and VINCENT DURONIO **245**

Mechanism of antibody stimulation of hexose transport in rat myoblasts
THEODORE C.Y. LO and VINCENT DURONIO **255**

Duval, J.
Interactions calmoduline–lipides: étude de l'encapsulation de la protéine en chromatographie liquide
HENRI KERCRET, THIERRY DELAUNAY et JACQUES DUVAL **648**

Einspenner, M.
Inhibition of DMSO-induced differentiation by hyperthermia in a murine erythroleukemia cell system
G.P. RAAPHORST, E.I. AZZAM, J. BORSA, M. EINSPENNER, and J.A. VADASZ **1091**

Elliott, C.
Adipocyte insulin-binding species: the 40 Å Stoke's radius protein
C. ELLIOTT and H. JOSEPH GOREN **566**

Eng, F.W.H.T.
Dipeptidyl tetrapeptide hydrolase, a new enzyme with dipeptidyl ligase activity
FRANCISCO W. HONG TAI ENG **516**

Epand, R.M.
Effect of phase transitions on the interaction of peptides and proteins with phospholipids
RICHARD M. EPAND and WITOLD K. SUREWICZ **1167**

Erratt, J.A.
The induction of α-amylase by starch in *Aspergillus oryzae*: evidence for controlled mRNA expression
J.A. ERRATT, P.E. DOUGLAS, F. MORANELLI, and V.L. SELIGY **678**

Espinola, T.
Theory and practical application of coupled enzyme reactions: one and two auxiliary enzymes
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **945**

Theory and practical application of coupled enzyme systems: one and two coupling enzymes with mutarotation of an intermediate
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **956**

Evans, D.H.
Rapid sensitive fluorescence assays for DNA endonucleases and DNA glycosylases
D.H. EVANS, F.X. BUGEJA, B.J. YACYSHYN, and A.R. MORGAN **1275**

Farber, E.
The biochemistry of preneoplastic liver: a common metabolic pattern in hepatocyte nodules
EMMANUEL FARBER **486**

Farid, N.R.
Anti-idiotyptic antibodies as probes for hormone–receptor interaction
NADIR R. FARID, ROSARIO BRIONES-URBINA, and M. NAZRUL ISLAM **1255**

Farmer, D.J.
Comparative inhibition of hepatic hydroxymethylbilane synthase by both hard and soft metal cations
D.J. FARMER and B.R. HOLLEBONE **49**

Favilli, F.
On the interaction between synthetic detergents and enzymatic proteins
CRISTINA TREVES, MARIA TERESA VINCENZINI, FABIO FAVILLI, PAOLO VANNI, and VINCENZO BACCARI **55**

Figueiredo, A.F.S.
Kinetic studies of rat renin and tonin on purified rat angiotensinogen
JOLANTA GUTKOWSKA, PIERRE CORVOL, AMINTAS F.S. FIGUEIREDO, TADASHI INAGAMI, JACOB BOUHNIK, and JACQUES GENEST **137**

Filion, M.
Direction of synthesis of the message for a 35 000 polypeptide of herpes simplex virus type 2
ERIC FROST, MARIO FILION, and MARTHA SUH **266**

Secretagogues cause a preferential discharge of large size granules in rat pancreas
ADRIEN R. BEAUDOIN, GILLES GRONDIN, MARIO FILION, and ANDRÉ LORD **1288**

Forsdyke, D.R.
Rapid qualitative changes in mRNA populations in cultured human lymphocytes: comparison of the effects of cycloheximide and concanavalin A
DONALD R. FORSDYKE **859**

Forstner, G.
Rat intestinal maltase–glucoamylase. Purification of the detergent-solubilized enzyme in the presence of protease inhibitors: properties and identification of a protease-sensitive subunit
LILIAN LEE and GORDON FORSTNER **36**

Foster, D.O.
Quantitative contribution of brown adipose tissue thermogenesis to overall metabolism
DAVID O. FOSTER **618**

Frappier, L.
Changes in the cytoplasmic and nuclear activities of the ribonucleotide reductase holoenzyme and its subunits in regenerating liver cells in normal and thyroparathyroidectomized rats
T. YOUDALE, L. FRAPPIER, J.F. WHITFIELD, and R.H. RIXON **914**

Freeman, K.B.
Biosynthesis of the 32-kdalton uncoupling protein in brown adipose tissue of developing rabbits
KARL B. FREEMAN and HASMUKH V. PATEL **479**

French, B.T.
Endogenous and exogenous factors affecting ribosomal RNA release from rat liver nuclei in a cell-free system
M.E. HANAUSEK-WALASZEK, B.T. FRENCH, D.E. SCHUMM, Z. WALASZEK, and T.E. WEBB **335**

Fritz, I.B.
Isoelectric forms of clusterin isolated from ram rete testis fluid and from secretions of primary cultures of ram and rat Sertoli-cell-enriched preparations
O.W. BLASCHUK and I.B. FRITZ **456**

Frost, E.
Direction of synthesis of the message for a 35 000 polypeptide of herpes simplex virus type 2
ERIC FROST, MARIO FILION, and MARTHA SUH **266**

Fruteau de Laclos, B.
Studies on leukotriene B4 ω-oxidation in human leukocytes
MARIE NADEAU, BERNARD FRUTEAU DE LACLOS, SERGE PICARD, PIERRE BRAQUET, E.J. COREY, and PIERRE BORGEAT **1321**

Fujii, M.
Effect of taxol on the interaction of tubulin with myosin filaments
TOSHIHIRO FUJII, TATSUO SUZUKI, AKIRA HACHIMORI, MICHIYO FUJII, YOSHIYUKI KONDO, and KOSUKE OHKI **878**

Fujii, T.
Effect of taxol on the interaction of tubulin with myosin filaments
TOSHIHIRO FUJII, TATSUO SUZUKI, AKIRA HACHIMORI, MICHIYO FUJII, YOSHIYUKI KONDO, and KOSUKE OHKI **878**

Gaarn, A.
Effect of cholesterol upon the conformation of band 3 and its transmembrane fragment
ABBEY H. KLUGERMAN, ALEX GAARN, and JOEL G. PARKES **1033**

Gaillard, J.
Characterization and spectral properties of *Proteus mirabilis* PR catalase
HÉLÈNE MARIE JOUVE, JACQUES GAILLARD, and JEAN PELMONT **935**

Gelfand, E.W.
Purine metabolism in human T lymphocytes: role of the purine nucleoside cycle
AMOS COHEN, JERZY BARANKIEWICZ, HOWARD M. LEDERMAN, and ERWIN W. GELFAND **577**

Gendreau, M.
Séparation des virotoxines du champignon *Amanita virosa* et étude comparative de leur interaction sur l'actine *in vitro*
ANDRÉE TURCOTTE, CLAUDE GICQUAUD, MARTHE GENDREAU et SERGE ST-PIERRE **1327**

Genest, J.
Kinetic studies of rat renin and tonin on purified rat angiotensinogen
JOLANTA GUTKOWSKA, PIERRE CORVOL, AMINTAS F.S. FIGUEIREDO, TADASHI INAGAMI, JACOB BOUHNIK, and JACQUES GENEST **137**

Georgallas, A.
The thermodynamic properties of mixed phospholipid bilayers: a theoretical analysis
MARYSE MONDAT, A. GEORGALLAS, D.A. PINK, and M.J. ZUCKERMANN **796**

Georges, F.
The human preproinsulin gene: synthesis, cloning, gene modification, and expression studies
S.A. NARANG, R. BROUSSEAU, E. GEORGES, J. MICHNIEWICZ, G. PREFONTAINE, J. STAWINSKI, and W. SUNG **209**

Gerber, G.E.
Biosynthetic utilization of photoreactive fatty acids by rat liver microsomes
PIERRE LEBLANC and GERHARD E. GERBER **375**

Ghosh, H.P.
Association of the nucleocapsid protein N of vesicular stomatitis virus with phospholipid vesicles containing the matrix protein M
JOHN CAPONE and HARA P. GHOSH **1174**

Gicquaud, C.
Séparation des virotoxines du champignon *Amanita virosa* et étude comparative de leur interaction sur l'actine *in vitro*
ANDRÉE TURCOTTE, CLAUDE GICQUAUD, MARTHE GENDREAU et SERGE ST-PIERRE **1327**

Gilfix, B.M.
Relationship between cell surface asparagine-linked glycoproteins and myoblast differentiation. Analysis of wheat germ agglutinin-resistant mutants
BRIAN M. GILFIX and BISHNU D. SANWAL **60**

Glick, B.R.
Effect of 12-*O*-tetracanoylphorbol-13-acetate on cell-surface glycosaminoglycans in human diploid fibroblasts
BRUCE R. WOLFF, BERNARD R. GLICK, and NIELS C. BOLS **1354**

Goren, H.J.
Adipocyte insulin-binding species: the 40 Å Stoke's radius protein
C. ELLIOTT and H. JOSEPH GOREN **566**

Goussault, Y.
Modification of biological activities of *Ricinus communis* agglutinin by cross-linking with formaldehyde
E. TURPIN, J. WANTYGHEM, P. BEAUDRY, D. NÉEL, and Y. GOUSSAULT **203**

Grant, C.W.M.
Cell surface structural implications of some experiments with isolated glycolipids and glycoproteins
CHRIS W.M. GRANT **1151**

Greenblatt, J.
Regulation of transcription termination in *Escherichia coli*
JACK GREENBLATT **79**

Grenier, F.
Carrier-mediated ion transport in lipid bilayer membranes
RAYNALD LAPRADE, FRANÇOIS GRENIER, MONIQUE PAGÉ-DANSEREAU, and JANINE DANSEREAU **738**

Grondin, G.
Secretagogues cause a preferential discharge of large size granules in rat pancreas
ADRIEN R. BEAUDOIN, GILLES GRONDIN, MARIO FILION, and ANDRÉ LORD **1288**

Gruda, J.
Structural study on liver gelactin
JULIAN GRUDA and HÉLÈNE-MARIE THÉRIEN **1072**

Gruenke, S.A.
Evolutionary stability of mitochondrial DNA organization in *Achlya*
DAVID A. BOYD, THOMAS C. HOBMAN, SALLY A. GRUENKE, and GLEN R. KLASSEN **571**

Grzelczak, Z.F.
Signal resistance of a soluble protein to enzymic proteolysis. An unorthodox approach to the isolation and purification of germin, a rare growth-related protein
Z.F. GRZELCZAK and B.G. LANE **1351**

Gudkov, A.T.
Physical studies on the ribosomal "A" protein from two archaebacteria, *Halobacterium cutirubrum* and *Methanobacterium thermoautotrophicum*
A.T. GUDKOV, S. YU VENYAMINOV, and A.T. MATHESON **44**

Gutkowska, J.
Kinetic studies of rat renin and tonin on purified rat angiotensinogen
JOLANTA GUTKOWSKA, PIERRE CORVOL, AMINTAS F.S. FIGUEIREDO, TADASHI INAGAMI, JACOB BOUHNIK, and JACQUES GENEST **137**

Haard, N.F.
Purification and characterization of a chymosinlike protease from the gastric mucosa of harp seal *(Pagophilus groenlandicus)*
K. SHAMSUZZAMAN and N.F. HAARD **699**

Purification and characterization of trypsin from the Greenland cod (*Gadus ogac*). 1. Kinetic and thermodynamic characteristics
B.K. SIMPSON and N.F. HAARD **894**

Hachimori, A.
Effect of taxol on the interaction of tubulin with myosin filaments
TOSHIHIRO FUJII, TATSUO SUZUKI, AKIRA HACHIMORI, MICHIYO FUJII, YOSHIYUKI KONDO, and KOSUKE OHKI **878**

Hall, P.F.
The role of the cytoskeleton in hormone action
PETER F. HALL **653**

Hanausek-Walaszek, M.E.
Endogenous and exogenous factors affecting ribosomal RNA release from rat liver nuclei in a cell-free system
M.E. HANAUSEK-WALASZEK, B.T. FRENCH, D.E. SCHUMM, Z. WALASZEK, and T.E. WEBB **335**

Harding, P.G.R.
Pulmonary surfactant
FRED POSSMAYER, SHOU-HWA YU, J. MARNIE WEBER, and PAUL G.R. HARDING **1121**

Hasnain, S.
Purification, properties, and N-terminal amino acid sequence of certain 50S ribosomal subunit proteins from the archaebacterium *Halobacterium cutirubrum*
ALASTAIR T. MATHESON, MAKOTO YAGUCHI, PATRICIA CHRISTENSEN, C. FERNAND ROLLIN, and SADIQ HASNAIN **426**

Hawley, R.G.
Biochemical genetics of the mouse IgM system
MARC J. SHULMAN, ROBERT G. HAWLEY, ATSUO OCHI, W.O.T. BACZYNSKY, CATHERINE COLLINS, NANCY PENNELL, M.J. POTASH, GEORGES KÖHLER, and NOBUMICHI HOZUMI **217**

Hayden, L.J.
Production of somatomedin-like activity by human adult tumor-derived, transformed, and normal cell cultures and by cultured rat hepatocytes: effects of culture conditions and of epidermal growth factor (urogastrone)
PAUL R. ATKISON, L. JOSEPH HAYDEN, R. MARVIN BALA, and MORLEY D. HOLLENBERG **1343**

Heick, H.M.C.
Control mechanisms in brown adipose tissue plasma membrane
N. BÉGIN-HEICK and H.M.C. HEICK **631**

Heiniger, H.-J.
Specific binding of cholesterol to chromatin prepared from mouse spleen cells
MECHTHILD REGENASS-KLOTZ and HANS-JÖRG HEINIGER **94**

Heiszler, F.-J.
On the role of lipid-bilayer elasticity for the lipid–protein interaction and the indirect protein–protein coupling
E. SACKMANN, R. KOTULLA, and FRANZ-JOSEF HEISZLER **778**

Hercz, A.
The oligosaccharides of human α_1-antitrypsin
ALBERT HERCZ **19**

Preparation and examination of the oligosaccharides of serum α_1-antitrypsin PiZ
ALBERT HERCZ 288

Hill, S.A.
Regulation of phosphatidylcholine synthesis and the activity of CTP:cholinephosphate cytidylyltransferase in myoblasts by 12-*O*-tetradecanoylphorbol-13-acetate
STEPHEN A. HILL, WILLIAM C. MCMURRAY, and BISHNU D. SANWAL 369

Himms-Hagen, J.
Brown adipose tissue thermogenesis, energy balance, and obesity
JEAN HIMMS-HAGEN 610

Hirsh, J.
Effects of heparin fractions of different affinities to antithrombin III and thrombin on the inactivation of thrombin and factor Xa by antithrombin III
ANDREW L. CERSKUS, KATHY J. BIRCHALL, FREDERICK A. OFOSU, JACK HIRSH, and MORRIS A. BLAICHMAN 975

Ho, P.
Abnormal excretion of oestrogens in complicated pregnancies
SAUL L. COHEN and PATRICK HO 547

Hobman, T.C.
Evolutionary stability of mitochondrial DNA organization in *Achlya*
DAVID A. BOYD, THOMAS C. HOBMAN, SALLY A. GRUENKE, and GLEN R. KLASSEN 571

Hofmann, T.
Luminescence and circular-dichroism analysis of terbium binding by pig intestinal calcium-binding protein (relative mass = 9000)
JOE D.J. O'NEIL, KEITH J. DORRINGTON, and THEO HOFMANN 434

Partial amino acid sequence of the wheat germ E_c protein. Comparison with another protein very rich in half-cystine and glycine: wheat germ agglutinin
THEO HOFMANN, DAVID I.C. KELLS, and BYRON G. LANE 908

Hollebone, B.R.
Comparative inhibition of hepatic hydroxymethylbilane synthase by both hard and soft metal cations
D.J. FARMER and B.R. HOLLEBONE 49

Hollenberg, M.D.
Somatomedin-like activity from cultured embryo-derived cells: partial characterization and stimulation of production by epidermal growth factor (urogastrone)
PAUL R. ATKISON, R. MARVIN BALA, and MORLEY D. HOLLENBERG 1335

Production of somatomedin-like activity by human adult tumor-derived, transformed, and normal cell cultures and by cultured rat hepatocytes: effects of culture conditions and of epidermal growth factor (urogastrone)
PAUL R. ATKISON, L. JOSEPH HAYDEN, R. MARVIN BALA, and MORLEY D. HOLLENBERG 1343

Holub, B.J.
Evaluation of the fatty acid selectivity of a phosphatidylinositol-specific cytosolic phospholipase C from pig and human platelets
BRUCE J. HOLUB and BERNADETTE CELI 115

Altered phospholipid metabolism in thrombin-stimulated human platelets
BRUCE J. HOLUB 341

The incorporation of [^{3}H]glycerol and 1-[^{14}C]acyl-*sn*-glycero-3-phosphocholine into different molecular species of phosphatidylcholine in human platelets
VHUNDI G. MAHADEVAPPA and BRUCE J. HOLUB 827

Horgen, P.A.
Production of monoclonal antibodies to a steroid plant growth regulator
P.A. HORGEN, C.H. NAKAGAWA, and R.T. IRVIN 715

Hozumi, N.
Biochemical genetics of the mouse IgM system
MARC J. SHULMAN, ROBERT G. HAWLEY, ATSUO OCHI, W.O.T. BACZYNSKY, CATHERINE COLLINS, NANCY PENNELL, M.J. POTASH, GEORGES KÖHLER, and NOBUMICHI HOZUMI 217

Hudson, A.J.
Characterization of an isozyme of *S*-adenosylmethionine synthetase from rat liver
C.H. LIN, W. CHUNG, K.P. STRICKLAND, and A.J. HUDSON 276

Inagami, T.
Kinetic studies of rat renin and tonin on purified rat angiotensinogen
JOLANTA GUTKOWSKA, PIERRE CORVOL, AMINTAS F.S. FIGUEIREDO, TADASHI INAGAMI, JACOB BOUHNIK, and JACQUES GENEST 137

Irvin, R.T.
Production of monoclonal antibodies to a steroid plant growth regulator
P.A. HORGEN, C.H. NAKAGAWA, and R.T. IRVIN 715

Isaac, C.D.
Modification of actin with 2-(*N*-methylanilino)naphthalene-6-sulfonyl chloride
L.D. BURTNICK and C.D. ISAAC 191

Ishiguro, E.E.
Surface layer virulence A-proteins from *Aeromonas salmonicida* strains
WILLIAM W. KAY, BARRY M. PHIPPS, EDWARD E. ISHIGURO, ROBERT W. OLAFSON, and TREVOR J. TRUST 1064

Islam, M.N.
Anti-idiotyptic antibodies as probes for hormone–receptor interaction
NADIR R. FARID, ROSARIO BRIONES-URBINA, and M. NAZRUL ISLAM 1255

Jandreski, M.
Characterization of neonatal cardiac myosin heavy chain mRNA and synthesis of complementary DNA
MARK JANDRESKI and C.C. LIEW 185

Jankowski, J.M.
Transcription of a trout protamine gene *in vitro*: the effects of alteration of promoters
JACEK M. JANKOWSKI and GORDON H. DIXON 291

Jayanthi, C.R.
Studies on the microsomal 11α-hydroxylation of progesterone in *Aspergillus ochraceus*: isolation, characterization, and solubilization of the hydroxylase system
K.M. MADYASTHA, C.R. JAYANTHI, P. MADYASTHA, and D. SUMATHI 100

Jennings, H.J.
Improved procedures for the conjugation of oligosaccharides to protein by reductive amination
RENÉ ROY, EWA KATZENELLENBOGEN, and HAROLD J. JENNINGS **270**

Johnstone, R.M.
Phosphorylation of the transferrin receptor in isolated sheep reticulocyte plasma membranes
ROSE M. JOHNSTONE, MOHAMMED ADAM, CLAIRE TURBIDE, and JAMES LARRICK **927**

The fate of the transferrin receptor during maturation of sheep reticulocytes in vitro
R.M. JOHNSTONE, M. ADAM, and B.T. PAN **1246**

Jones, C.S.
Human placental β-galactosidase: structural and immunological observations
CHRISTOPHER S. JONES, DONALD MAHURAN, J. ALEXANDER LOWDEN, and JOHN W. CALLAHAN **529**

Jouve, H.M.
Characterization and spectral properties of *Proteus mirabilis* PR catalase
HÉLÈNE MARIE JOUVE, JACQUES GAILLARD, and JEAN PELMONT **935**

Kakis, G.
Effect of intravenous infusion of Intralipid, cholesterol, and plant sterols on hepatic cholesterogenesis
G. KAKIS and A. KUKSIS **1**

Apolipoprotein C-II deficiency associated with nonfunctional mutant forms of apolipoprotein C-II
GRAHAM F. MAGUIRE, J. ALICK LITTLE, GARY KAKIS, and W. CARL BRECKENRIDGE **847**

Kalant, N.
Interaction of high and low density lipoproteins on glycosaminoglycan secretion by human vascular smooth muscle cells and fibroblasts
LEONARD WOSU, SUZANNE MCCORMICK, and NORMAN KALANT **984**

Kaplan, J.G.
Purine and pyrimidine analogues irreversibly prevent passage of lymphocytes from the G_1 to the S phase of the cell cycle
CHRISTINE E. BOUMAH, GEORGE SETTERFIELD, and J. GORDIN KAPLAN **280**

Kapoor, M.
A two-dimensional immunoelectrophoretic analysis of the heat-shock response exhibited by *Neurospora crassa* cells
M. KAPOOR and A.W.L. CHOW **691**

Katzenellenbogen, E.
Improved procedures for the conjugation of oligosaccharides to protein by reductive amination
RENÉ ROY, EWA KATZENELLENBOGEN, and HAROLD J. JENNINGS **270**

Kaur, H.
Inhibition of fusion of skeletal myoblasts by tunicamycin and its reversal by *N*-acetylglucosamine
G.A. CATES, H. KAUR, and B.D. SANWAL **28**

Kay, W.W.
Surface layer virulence A-proteins from *Aeromonas salmonicida* strains
WILLIAM W. KAY, BARRY M. PHIPPS, EDWARD E. ISHIGURO, ROBERT W. OLAFSON, and TREVOR J. TRUST **1064**

Keates, R.A.B.
Microtubule associated proteins in microtubule preparations made with and without glycerol
ROBERT A.B. KEATES **803**

Inhibition of microtubule polymerization by micromolar concentrations of mercury(II)
ROBERT A.B. KEATES and BRIAN YOTT **814**

Kells, D.I.C.
The determination of calcium-binding sites of human erythrocyte membranes
R. BLAINE MOORE, E.E. DRYDEN, D.I.C. KELLS, and J.F. MANERY **398**

Partial amino acid sequence of the wheat germ E_c protein. Comparison with another protein very rich in half-cystine and glycine: wheat germ agglutinin
THEO HOFMANN, DAVID I.C. KELLS, and BYRON G. LANE **908**

Kelusky, E.C.
Anesthetic–membrane interaction: A ^2H nuclear magnetic resonance study of the binding of specifically deuterated tetracaine and procaine to phosphatidylcholine
ERIC C. KELUSKY and IAN C.P. SMITH **178**

Kennedy, T.D.
Wheat-embryo ribonucleates. XV. Characterization of a fraction of RNA subject to conspicuous terminal labeling during early germination of wheat embryos
THERESA D. KENNEDY and BYRON G. LANE **321**

Kercret, H.
Interactions calmoduline–lipides: étude de l'encapsulation de la protéine en chromatographie liquide
HENRI KERCRET, THIERRY DELAUNAY et JACQUES DUVAL **648**

Kidder, G.M.
Synthesis of putative microtubule-associated proteins by mouse blastocysts during early outgrowth *in vitro*
WILLIAM R. BATES and GERALD M. KIDDER **885**

Kirouac-Brunet, J.
Plasma membranes from *Physarum polycephalum* plasmodia: purification, characterization, and comparison with amoebae plasma membranes
DOMINICK PALLOTTA, ANNE BARDEN, RÉMI MARTEL, JOSÉE KIROUAC-BRUNET, FRANÇOIS BERNIER, ANDRÉ LORD, and GÉRALD LEMIEUX **831**

Klassen, G.R.
Evolutionary stability of mitochondrial DNA organization in *Achlya*
DAVID A. BOYD, THOMAS C. HOBMAN, SALLY A. GRUENKE, and GLEN R. KLASSEN **571**

Kline, L.D.
The method used in purification of nuclei from three variant cell lines of the Shionogi mouse mammary carcinoma alters their uptake of dihydrotestosterone
YVONNE A. LEFEBVRE, JANICE J. CASKEY, and LINDA D. KLINE **121**

Klip, A.
Is intracellular Ca^{2+} involved in insulin stimulation of sugar transport? Fact and prejudice
AMIRA KLIP **1228**

Klugerman, A.H.
Effect of cholesterol upon the conformation of band 3 and its transmembrane fragment
ABBEY H. KLUGERMAN, ALEX GAARN, and JOEL G. PARKES **1033**

Kniskern, P.J.
The specific capsular polysaccharide of *Streptococcus pneumoniae* type 33F
JAMES C. RICHARDS, MALCOLM B. PERRY, and
PETER J. KNISKERN **666**

Structural analysis of the specific polysaccharide of *Streptococcus pneumoniae* type 9L (American type 49)
JAMES C. RICHARDS, MALCOLM B. PERRY, and
PETER J. KNISKERN **1309**

Köhler, G.
Biochemical genetics of the mouse IgM system
MARC J. SHULMAN, ROBERT G. HAWLEY, ATSUO OCHI,
W.O.T. BACZYNSKY, CATHERINE COLLINS, NANCY PENNELL,
M.J. POTASH, GEORGES KÖHLER, and NOBUMICHI HOZUMI **217**

Kondo, Y.
Effect of taxol on the interaction of tubulin with myosin filaments
TOSHIHIRO FUJII, TATSUO SUZUKI, AKIRA HACHIMORI,
MICHIYO FUJII, YOSHIYUKI KONDO, and KOSUKE OHKI **878**

Kotulla, R.
On the role of lipid-bilayer elasticity for the lipid–protein interaction and the indirect protein–protein coupling
E. SACKMANN, R. KOTULLA, and FRANZ-JOSEF HEISZLER **778**

Koval, S.F.
The isolation of surface array proteins from bacteria
S.F. KOVAL and R.G.E. MURRAY **1181**

Kuksis, A.
Effect of intravenous infusion of Intralipid, cholesterol, and plant sterols on hepatic cholesterogenesis
G. KAKIS and A. KUKSIS **1**

Resolution and quantitation of diacylglycerol moieties of natural glycerophospholipids by reversed-phase liquid chromatography with direct liquid inlet mass spectrometry
S. PIND, A. KUKSIS, J.J. MYHER, and L. MARAI **301**

Resolution of alkenylacylglycerol moieties of natural glycerophospholipids by gas–liquid chromatography on polar capillary columns
J.J. MYHER and A. KUKSIS **352**

Kwiterovich, P.O., Jr.
Glycosphingolipids and plasma lipoproteins: a review
SUBROTO CHATTERJEE and PETER O. KWITEROVICH, JR. **385**

Labow, R.S.
A comparison of four sulfhydryl cathepsins (B, C, H, and L) from porcine spleen
K.R. LYNN and ROSALIND S. LABOW **1301**

Lajeunesse, D.
Phosphate distribution and transport in mycoplasma
DANIEL LAJEUNESSE and CHRISTIAN LE GRIMELLEC **1041**

Lane, B.G.
Wheat-embryo ribonucleates. XV. Characterization of a fraction of RNA subject to conspicuous terminal labeling during early germination of wheat embryos
THERESA D. KENNEDY and BYRON G. LANE **321**

Partial amino acid sequence of the wheat germ E_0 protein. Comparison with another protein very rich in half-cystine and glycine: wheat germ agglutinin
THEO HOFMANN, DAVID I.C. KELLS, and BYRON G. LANE **908**

Signal resistance of a soluble protein to enzymic proteolysis. An unorthodox approach to the isolation and purification of germin, a rare growth-related protein
Z.F. GRZELCZAK and B.G. LANE **1351**

Laprade, R.
Carrier-mediated ion transport in lipid bilayer membranes
RAYNALD LAPRADE, FRANÇOIS GRENIER,
MONIQUE PAGÉ-DANSEREAU, and JANINE DANSEREAU **738**

Larrick, J.
Phosphorylation of the transferrin receptor in isolated sheep reticulocyte plasma membranes
ROSE M. JOHNSTONE, MOHAMMED ADAM, CLAIRE TURBIDE,
and JAMES LARRICK **927**

Lau, S.-j.
Comparative studies of manganese(II)-, nickel(II)-, zinc(II)-, copper(II)-, cadmium(II)-, and iron(III)-binding components in human cord and adult sera
SHOW-JY LAU and BIBUDHENDRA SARKAR **449**

Leblanc, P.
Biosynthetic utilization of photoreactive fatty acids by rat liver microsomes
PIERRE LEBLANC and GERHARD E. GERBER **375**

Lederman, H.M.
Purine metabolism in human T lymphocytes: role of the purine nucleoside cycle
AMOS COHEN, JERZY BARANKIEWICZ,
HOWARD M. LEDERMAN, and ERWIN W. GELFAND **577**

Lee, L.
Rat intestinal maltase–glucoamylase. Purification of the detergent-solubilized enzyme in the presence of protease inhibitors: properties and identification of a protease-sensitive subunit
LILIAN LEE and GORDON FORSTNER **36**

Lee, R.W.
A genetical approach to the physical mapping of chloroplast genes in *Chlamydomonas*
CLAUDE LEMIEUX, MONIQUE TURMEL, VERNER L. SELIGY,
and ROBERT W. LEE **225**

Lefebvre, Y.A.
The method used in purification of nuclei from three variant cell lines of the Shionogi mouse mammary carcinoma alters their uptake of dihydrotestosterone
YVONNE A. LEFEBVRE, JANICE J. CASKEY, and
LINDA D. KLINE **121**

Le Grimellec, C.
Phosphate distribution and transport in mycoplasma
DANIEL LAJEUNESSE and CHRISTIAN LE GRIMELLEC **1041**

LéJohn, H.B.
Heat and nutritional shock-induced proteins of the fungus *Achlya* are different and under independent transcription control
HERB B. LÉJOHN and CLEANTIS E. BRAITHWAITE **837**

Lemieux, C.
A genetical approach to the physical mapping of chloroplast genes in *Chlamydomonas*
CLAUDE LEMIEUX, MONIQUE TURMEL, VERNER L. SELIGY, and ROBERT W. LEE **225**

Lemieux, G.
Plasma membranes from *Physarum polycephalum* plasmodia: purification, characterization, and comparison with amoebae plasma membranes
DOMINICK PALLOTTA, ANNE BARDEN, RÉMI MARTEL, JOSÉE KIROUAC-BRUNET, FRANÇOIS BERNIER, ANDRÉ LORD, and GÉRALD LEMIEUX **831**

Liew, C.C.
Characterization of neonatal cardiac myosin heavy chain mRNA and synthesis of complementary DNA
MARK JANDRESKI and C.C. LIEW **185**

Limeback, H.
Change in phenotype in long-term cultures of a clonal rat bone cell line: switch to the synthesis of α_1(I)-trimer collagen
HARDY LIMEBACK, KICHIBEE OTSUKA, KAM-LING YAO, JANE E. AUBIN, and JARO SODEK **462**

Lin, C.H.
Characterization of an isozyme of *S*-adenosylmethionine synthetase from rat liver
C.H. LIN, W. CHUNG, K.P. STRICKLAND, and A.J. HUDSON **276**

Little, J.A.
Apolipoprotein C-II deficiency associated with nonfunctional mutant forms of apolipoprotein C-II
GRAHAM F. MAGUIRE, J. ALICK LITTLE, GARY KAKIS, and W. CARL BRECKENRIDGE **847**

Lo, T.C.Y.
Activation of hexose transport by antibody
THEODORE C.Y. LO and VINCENT DURONIO **245**

Mechanism of antibody stimulation of hexose transport in rat myoblasts
THEODORE C.Y. LO and VINCENT DURONIO **255**

Hexose transport in plasma membrane vesicles of rat myoblast L6
MATTHIAS O. CHEUNG and THEODORE C.Y. LO **1217**

Lord, A.
Plasma membranes from *Physarum polycephalum* plasmodia: purification, characterization, and comparison with amoebae plasma membranes
DOMINICK PALLOTTA, ANNE BARDEN, RÉMI MARTEL, JOSÉE KIROUAC-BRUNET, FRANÇOIS BERNIER, ANDRÉ LORD, and GÉRALD LEMIEUX **831**

Secretagogues cause a preferential discharge of large size granules in rat pancreas
ADRIEN R. BEAUDOIN, GILLES GRONDIN, MARIO FILION, and ANDRÉ LORD **1288**

Lowden, J.A.
Human placental β-galactosidase: structural and immunological observations
CHRISTOPHER S. JONES, DONALD MAHURAN, J. ALEXANDER LOWDEN, and JOHN W. CALLAHAN **529**

Lynn, K.R.
A comparison of four sulfhydryl cathepsins (B, C, H, and L) from porcine spleen
K.R. LYNN and ROSALIND S. LABOW **1301**

Macdonald, P.M.
Fatty acyl chain structure, orientational order, and the lipid phase transition in *Acholeplasma laidlawii* B membranes. A review of recent ^{19}F nuclear magnetic resonance studies
P.M. MACDONALD, B.D. SYKES, and R.N. McELHANEY **1134**

Madapallimattam, G.
Characteristics of skeletal muscle ecto-ATPase *in situ*
J.F. MANERY, E.E. DRYDEN, J.S. STILL, and G. MADAPALLIMATTAM **1015**

Madyastha, K.M.
Studies on the microsomal 11α-hydroxylation of progesterone in *Aspergillus ochraceus*: isolation, characterization, and solubilization of the hydroxylase system
K.M. MADYASTHA, C.R. JAYANTHI, P. MADYASTHA, and D. SUMATHI **100**

Madyastha, P.
Studies on the microsomal 11α-hydroxylation of progesterone in *Aspergillus ochraceus*: isolation, characterization, and solubilization of the hydroxylase system
K.M. MADYASTHA, C.R. JAYANTHI, P. MADYASTHA, and D. SUMATHI **100**

Maguire, G.F.
Apolipoprotein C-II deficiency associated with nonfunctional mutant forms of apolipoprotein C-II
GRAHAM F. MAGUIRE, J. ALICK LITTLE, GARY KAKIS, and W. CARL BRECKENRIDGE **847**

Mahadevappa, V.G.
The incorporation of [^{3}H]glycerol and 1-[^{14}C]acyl-*sn*-glycero-3-phosphocholine into different molecular species of phosphatidylcholine in human platelets
VHUNDI G. MAHADEVAPPA and BRUCE J. HOLUB **827**

Mahuran, D.
Human placental β-galactosidase: structural and immunological observations
CHRISTOPHER S. JONES, DONALD MAHURAN, J. ALEXANDER LOWDEN, and JOHN W. CALLAHAN **529**

Man, R.Y.K.
The hydrolysis of phosphatidylcholine by phospholipase A_2 in hamster heart
STANLEY W. TAM, RICKY Y.K. MAN, and PATRICK C. CHOY **1269**

Manery, J.F.
The determination of calcium-binding sites of human erythrocyte membranes
R. BLAINE MOORE, E.E. DRYDEN, D.I.C. KELLS, and J.F. MANERY **398**

Characteristics of skeletal muscle ecto-ATPase *in situ*
J.F. MANERY, E.E. DRYDEN, J.S. STILL, and G. MADAPALLIMATTAM **1015**

Marai, L.
Resolution and quantitation of diacylglycerol moieties of natural glycerophospholipids by reversed-phase liquid chromatography with direct liquid inlet mass spectrometry
S. Pind, A. Kuksis, J.J. Myher, and L. Marai **301**

Martel, R.
Plasma membranes from *Physarum polycephalum* plasmodia: purification, characterization, and comparison with amoebae plasma membranes
Dominick Palliotta, Anne Barden, Rémi Martel, Josée Kirouac-Brunet, François Bernier, André Lord, and Gérald Lemieux **831**

Matheson, A.T.
Physical studies on the ribosomal "A" protein from two archaebacteria, *Halobacterium cutirubrum* and *Methanobacterium thermoautotrophicum*
A.T. Gudkov, S. Yu Venyaminov, and A.T. Matheson **44**

Purification, properties, and N-terminal amino acid sequence of certain 50S ribosomal subunit proteins from the archaebacterium *Halobacterium cutirubrum*
Alastair T. Matheson, Makoto Yaguchi, Patricia Christensen, C. Fernand Rollin, and Sadiq Hasnain **426**

Mattoo, A.K.
Malate dehydrogenase from thermophilic *Humicola lanuginosa* and *Mucor pusillus*: purification and comparative properties of the enzymes with differing thermostabilities
Anupam S. Wali and Autar K. Mattoo **559**

Matuk, Y.
Retinitis pigmentosa and retinal degeneration in animals: a review
Yousek Matuk **535**

McBurney, M.W.
DNA methylation in differentiating mouse teratocarcinoma and erythroleukemia cells
Luc Aujame, Jane Craig, and Michael W. McBurney **584**

McCormick, S.
Interaction of high and low density lipoproteins on glycosaminoglycan secretion by human vascular smooth muscle cells and fibroblasts
Leonard Wosu, Suzanne McCormick, and Norman Kalant **984**

McElhaney, R.N.
Fatty acyl chain structure, orientational order, and the lipid phase transition in *Acholeplasma laidlawii* B membranes. A review of recent ^{19}F nuclear magnetic resonance studies
P.M. Macdonald, B.D. Sykes, and R.N. McElhaney **1134**

McMurray, W.C.
Regulation of phosphatidylcholine synthesis and the activity of CTP:cholinephosphate cytidylyltransferase in myoblasts by 12-*O*-tetradecanoylphorbol-13-acetate
Stephen A. Hill, William C. McMurray, and Bishnu D. Sanwal **369**

Introduction: First Rossiter Research Conference – 1983/Première Conference de recherche Rossiter – 1983
W.C. McMurray **1101**

CDP-diglyceride hydrolase from pig liver mitochondria
D.W. Nicholson and W.C. McMurray **1205**

Mehdi, A.Z.
A detailed investigation of the cytoplasmic cortisol-binding receptor of North American eel (*Anguilla rostrata*) tissues
John A. DiBattista, A.Z. Mehdi, and Thomas Sandor **991**

Micallef, S.
Catabolism of 6-keto prostaglandin E_1 by rat kidney homogenates
C.R. Pace-Asciak and S. Micallef **709**

Michniewicz, J.
The human preproinsulin gene: synthesis, cloning, gene modification, and expression studies
S.A. Narang, R. Brousseau, F. Georges, J. Michniewicz, G. Prefontaine, J. Stawinski, and W. Sung **209**

Miller, J.P.
Separation of nitrobenzylthioinosine from high affinity binding sites on human erythrocytes by gel chromatography
Alan R.P. Paterson, Anthony F. Almeida, Ewa Dahlig-Harley, Jon P. Miller, and Carol E. Cass **1283**

Miller, R.W.
Cytoplasmic membrane of *Rhizobium meliloti* bacteroids. II. Functional differentiation and generation of membrane potentials
P.A. Tremblay and R.W. Miller **592**

Mondat, M.
The thermodynamic properties of mixed phospholipid bilayers: a theoretical analysis
Maryse Mondat, A. Georgallas, D.A. Pink, and M.J. Zuckermann **796**

Moore, R.B.
Calcium-dependent hydrolyses of polyphosphoinositides in human erythrocyte membranes
R. Blaine Moore and Stanley H. Appel **363**

The determination of calcium-binding sites of human erythrocyte membranes
R. Blaine Moore, E.E. Dryden, D.I.C. Kells, and J.F. Manery **398**

Moranelli, F.
The induction of α-amylase by starch in *Aspergillus oryzae*: evidence for controlled mRNA expression
J.A. Erratt, P.E. Douglas, F. Moranelli, and V.L. Seligy **678**

Morgan, A.R.
Rapid sensitive fluorescence assays for DNA endonucleases and DNA glycosylases
D.H. Evans, F.X. Bugeja, B.J. Yacyshyn, and A.R. Morgan **1275**

Moscarello, M.A.
Comparison of metastable phase behavior of the complexes of dipalmitoyl phosphatidylglycerol with Mg^{+2} and myelin basic protein
Joan M. Boggs and M.A. Moscarello **11**

Müller-Landau, F.
Molecular packing in steroid–lecithin monolayers. IV. Mixed films of epicoprostanol with dipalmitoyl phosphatidylcholine
D.A. Cadenhead and F. Müller-Landau **732**

Murray, R.G.E.
The isolation of surface array proteins from bacteria
S.F. Koval and R.G.E. Murray **1181**

Myher, J.J.
Resolution and quantitation of diacylglycerol moieties of natural glycerophospholipids by reversed-phase liquid chromatography with direct liquid inlet mass spectrometry
S. Pind, A. Kuksis, J.J. Myher, and L. Marai **301**

Resolution of alkenylacylglycerol moieties of natural glycerophospholipids by gas–liquid chromatography on polar capillary columns
J.J. Myher and A. Kuksis **352**

Nadeau, M.
Studies on leukotriene B4 ω-oxidation in human leukocytes
Marie Nadeau, Bernard Fruteau de Laclos, Serge Picard, Pierre Braquet, E.J. Corey, and Pierre Borgeat **1321**

Nakagawa, C.H.
Production of monoclonal antibodies to a steroid plant growth regulator
P.A. Horgen, C.H. Nakagawa, and R.T. Irvin **715**

Narang, S.A.
The human preproinsulin gene: synthesis, cloning, gene modification, and expression studies
S.A. Narang, R. Brousseau, F. Georges, J. Michniewicz, G. Prefontaine, J. Stawinski, and W. Sung **209**

Nazar, R.N.
The ribosomal 5.8S RNA: eukaryotic adaptation or processing variant?
Ross N. Nazar **311**

Néel, D.
Modification of biological activities of *Ricinus communis* agglutinin by cross-linking with formaldehyde
E. Turpin, J. Wantyghem, P. Beaudry, D. Néel, and Y. Goussault **203**

Nicholson, D.W.
CDP-diglyceride hydrolase from pig liver mitochondria
D.W. Nicholson and W.C. McMurray **1205**

Noël, S.-P.
Instability of endothelium-bound lipoprotein lipase activity in perfused rat hearts
Simon-Pierre Noël **89**

An *in vitro* model to study lipolysis of rat hepatic very low density lipoprotein using cardiac lipoprotein lipase
Louise Brissette and Simon-Pierre Noël **1076**

Norry, T.W.
3-Aminobenzamide does not increase repair patch size in mammalian cells
Ian G. Walker, John P.H. Th'ng, Timothy J. Schrader, and Thomas W. Norry **329**

Ochi, A.
Biochemical genetics of the mouse IgM system
Marc J. Shulman, Robert G. Hawley, Atsuo Ochi, W.O.T. Baczynsky, Catherine Collins, Nancy Pennell, M.J. Potash, Georges Köhler, and Nobumichi Hozumi **217**

O'Day, D.H.
The low molecular weight autoinhibitor of sexual development in *Dictyostelium discoideum* inhibits cell fusion and zygote differentiation
Stephen P. Szabo and Danton H. O'Day **722**

Ofosu, F.A.
Effects of heparin fractions of different affinities to antithrombin III and thrombin on the inactivation of thrombin and factor Xa by antithrombin III
Andrew L. Cerskus, Kathy J. Birchall, Frederick A. Ofosu, Jack Hirsh, and Morris A. Blajchman **975**

Ohki, K.
Effect of taxol on the interaction of tubulin with myosin filaments
Toshihiro Fujii, Tatsuo Suzuki, Akira Hachimori, Michiyo Fujii, Yoshiyuki Kondo, and Kosuke Ohki **878**

Olafson, R.W.
Surface layer virulence A-proteins from *Aeromonas salmonicida* strains
William W. Kay, Barry M. Phipps, Edward E. Ishiguro, Robert W. Olafson, and Trevor J. Trust **1064**

O'Neil, J.D.J.
Luminescence and circular-dichroism analysis of terbium binding by pig intestinal calcium-binding protein (relative mass = 9000)
Joe D.J. O'Neil, Keith J. Dorrington, and Theo Hofmann **434**

Orr, J.
Mucin synthesis. The action of pig gastric mucosal UDP-GlcNAc:Galβ1-3(R_1)GalNAc-R_2 (GlcNAc to Gal) β3-*N*-acetylglucosaminyltransferase on high molecular weight substrates
Inka Brockhausen, Jeanne Orr, and Harry Schachter **1081**

Otsuka, K.
Change in phenotype in long-term cultures of a clonal rat bone cell line: switch to the synthesis of α_1(I)-trimer collagen
Hardy Limeback, Kichibee Otsuka, Kam-Ling Yao, Jane E. Aubin, and Jaro Sodek **462**

An osteonectinlike protein in porcine periodontal ligament and its synthesis by periodontal ligament fibroblasts
Safia Wasi, Kichibee Otsuka, Kam-Ling Yao, Pierre S. Tung, Jane E. Aubin, Jaro Sodek, and John D. Termine **470**

Pace-Asciak, C.R.
Catabolism of 6-keto prostaglandin E_1 by rat kidney homogenates
C.R. Pace-Asciak and S. Micallef **709**

Pagé-Dansereau, M.
Carrier-mediated ion transport in lipid bilayer membranes
Raynald Laprade, François Grenier, Monique Pagé-Dansereau, and Janine Dansereau **738**

Painter, R.H.
The C1q receptor site on human immunoglobulin G
Robert H. Painter **418**

Pallotta, D.
Plasma membranes from *Physarum polycephalum* plasmodia: purification, characterization, and comparison with amoebae plasma membranes
Dominick Pallotta, Anne Barden, Rémi Martel, Josée Kirouac-Brunet, François Bernier, André Lord, and Gérald Lemieux **831**

Pan, B.T.
The fate of the transferrin receptor during maturation of sheep reticulocytes in vitro
R.M. Johnstone, M. Adam, and B.T. Pan **1246**

Parkes, J.G.
Effect of cholesterol upon the conformation of band 3 and its transmembrane fragment
ABBEY H. KLUGERMAN, ALEX GAARN, and JOEL G. PARKES **1033**

Parsegian, V.A.
Physical force considerations in model and biological membranes
R.P. RAND and V.A. PARSEGIAN **752**

Patel, H.V.
Biosynthesis of the 32-kdalton uncoupling protein in brown adipose tissue of developing rabbits
KARL B. FREEMAN and HASMUKH V. PATEL **479**

Paterson, A.R.P.
Separation of nitrobenzylthioinosine from high affinity binding sites on human erythrocytes by gel chromatography
ALAN R.P. PATERSON, ANTHONY F. ALMEIDA, EWA DAHLIG-HARLEY, JON P. MILLER, and CAROL E. CASS **1283**

Patil, R.V.
The purification and properties of (1→4)-β-D-glucan cellobiohydrolase from *Sclerotium rolfsii:* substrate specificity and mode of action
RAJKUMAR V. PATIL and JAI C. SADANA **920**

Paulsen, H.
Control of glycoprotein synthesis. IX. A terminal Manα1-3Manβ1-sequence in the substrate is the minimum requirement for UDP-*N*-acetyl-D-glucosamine:α-D-mannoside (GlcNAc to Manα1-3) β2-*N*-acetylglucosaminyltransferase I
GEORGE J. VELLA, HANS PAULSEN, and HARRY SCHACHTER **409**

Pelech, S.L.
Glucagon inhibits phosphatidylcholine biosynthesis via the CDP-choline and transmethylation pathways in cultured rat hepatocytes
STEVEN L. PELECH, P. HAYDN PRITCHARD, ERIC F. SOMMERMAN, ANTHONY PERCIVAL-SMITH, and DENNIS E. VANCE **196**

Pelmont, J.
Characterization and spectral properties of *Proteus mirabilis* PR catalase
HÉLÈNE MARIE JOUVE, JACQUES GAILLARD, and JEAN PELMONT **935**

Pennell, N.
Biochemical genetics of the mouse IgM system
MARC J. SHULMAN, ROBERT G. HAWLEY, ATSUO OCHI, W.O.T. BACZYNSKY, CATHERINE COLLINS, NANCY PENNELL, M.J. POTASH, GEORGES KÖHLER, and NOBUMICHI HOZUMI **217**

Percival-Smith, A.
Glucagon inhibits phosphatidylcholine biosynthesis via the CDP-choline and transmethylation pathways in cultured rat hepatocytes
STEVEN L. PELECH, P. HAYDN PRITCHARD, ERIC F. SOMMERMAN, ANTHONY PERCIVAL-SMITH, and DENNIS E. VANCE **196**

Percy, M.E.
Catalase: an old enzyme with a new role?
MAIRE E. PERCY **1006**

Perdue, J.F.
Chemistry, structure, and function of insulin-like growth factors and their receptors: a review
JAMES F. PERDUE **1237**

Perry, M.B.
Structure of the polysaccharide chain of *Pasteurella haemolytica* (serotype 4) lipopolysaccharide
MALCOLM B. PERRY and LORNE A. BABIUK **108**

The specific capsular polysaccharide of *Streptococcus pneumoniae* type 15A (American type 30)
MARTINE CAROFF and MALCOLM B. PERRY **151**

The specific capsular polysaccharide of *Streptococcus pneumoniae* type 33F
JAMES C. RICHARDS, MALCOLM B. PERRY, and PETER J. KNISKERN **666**

Structural analysis of the specific polysaccharide of *Streptococcus pneumoniae* type 9L (American type 49)
JAMES C. RICHARDS, MALCOLM B. PERRY, and PETER J. KNISKERN **1309**

Petersen, N.O.
Diffusion and aggregation in biological membranes
NIELS O. PETERSEN **1158**

Phipps, B.M.
Surface layer virulence A-proteins from *Aeromonas salmonicida* strains
WILLIAM W. KAY, BARRY M. PHIPPS, EDWARD E. ISHIGURO, ROBERT W. OLAFSON, and TREVOR J. TRUST **1064**

Phoenix, P.
The control of accuracy during protein synthesis in *Escherichia coli* and perturbations of this control by streptomycin, neomycin, or ribosomal mutations
LÉA BRAKIER-GINGRAS and PAULINE PHOENIX **231**

Picard, S.
Studies on leukotriene B4 ω-oxidation in human leukocytes
MARIE NADEAU, BERNARD FRUITEAU DE LACLOS, SERGE PICARD, PIERRE BRAQUET, E.J. COREY, and PIERRE BORGEAT **1321**

Pind, S.
Resolution and quantitation of diacylglycerol moieties of natural glycerophospholipids by reversed-phase liquid chromatography with direct liquid inlet mass spectrometry
S. PIND, A. KUKSIS, J.J. MYHER, and L. MARAI **301**

Pink, D.A.
Theoretical studies of phospholipid bilayers and monolayers. Perturbing probes, monolayer phase transitions, and computer simulations of lipid–protein bilayers
DAVID A. PINK **760**

The thermodynamic properties of mixed phospholipid bilayers: a theoretical analysis
MARYSE MONDAT, A. GEORGALLAS, D.A. PINK, and M.J. ZUCKERMANN **796**

Pontarotti, P.
Cross-reactivity of a monoclonal anti-[Met^5]enkephalin antibody with cholecystokinin peptides
MONIQUE DESCHODT-LANCKMAN and PIERRE PONTAROTTI **1097**

Possmayer, F.
Pulmonary surfactant
FRED POSSMAYER, SHOU-HWA YU, J. MARNIE WEBER, and PAUL G.R. HARDING **1121**

Potash, M.J.
Biochemical genetics of the mouse IgM system
MARC J. SHULMAN, ROBERT G. HAWLEY, ATSUO OCHI, W.O.T. BACZYNSKY, CATHERINE COLLINS, NANCY PENNELL, M.J. POTASH, GEORGES KÖHLER, and NOBUMICHI HOZUMI **217**

Prefontaine, G.
The human preproinsulin gene: synthesis, cloning, gene modification, and expression studies
S.A. NARANG, R. BROUSSEAU, F. GEORGES, J. MICHNIEWICZ, G. PREFONTAINE, J. STAWINSKI, and W. SUNG **209**

Pristupa, Z.B.
Folylpolyglutamate synthetase from beef liver: assay, stabilization, and characterization
Z.B. PRISTUPA, P.J. VICKERS, G.B. SEPHTON, and K.G. SCRIMGEOUR **495**

Pritchard, P.H.
Glucagon inhibits phosphatidylcholine biosynthesis via the CDP-choline and transmethylation pathways in cultured rat hepatocytes
STEVEN L. PELECH, P. HAYDN PRITCHARD, ERIC F. SOMMERMAN, ANTHONY PERCIVAL-SMITH, and DENNIS E. VANCE **196**

Quastel, J.H.
The development of biochemistry in the 20th century
J.H. QUASTEL **1103**

Raaphorst, G.P.
Inhibition of DMSO-induced differentiation by hyperthermia in a murine erythroleukemia cell system
G.P. RAAPHORST, E.I. AZZAM, J. BORSA, M. EINSPENNER, and J.A. VADASZ **1091**

Rand, R.P.
Physical force considerations in model and biological membranes
R.P. RAND and V.A. PARSEGIAN **752**

Regenass-Klotz, M.
Specific binding of cholesterol to chromatin prepared from mouse spleen cells
MECHTHILD REGENASS-KLOTZ and HANS-JÖRG HEINIGER **94**

Regoeczi, E.
Partial resialylation of human asialotransferrin types 1 and 2 in the rat
ERWIN REGOECZI, PAUL A. CHINDEMI, and MARIA T. DEBANNE **853**

Free-flow electrophoresis of the low-density structures that contain asialoglycoproteins in the rat liver
MARIA T. DEBANNE, MARIA BOLYOS, and ERWIN REGOECZI **1051**

Richards, J.C.
The specific capsular polysaccharide of *Streptococcus pneumoniae* type 33F
JAMES C. RICHARDS, MALCOLM B. PERRY, and PETER J. KNISKERN **666**

Structural analysis of the specific polysaccharide of *Streptococcus pneumoniae* type 9L (American type 49)
JAMES C. RICHARDS, MALCOLM B. PERRY, and PETER J. KNISKERN **1309**

Rivera, J.A.
A highly thermostable proline:tRNA ligase from *Thermus aquaticus*. Purification and enzyme–tRNA recognition at elevated temperatures
JORGE A. RIVERA, QI-SONG WANG, and J.TZE-FEI WONG **507**

Rixon, R.H.
Changes in the cytoplasmic and nuclear activities of the ribonucleotide reductase holoenzyme and its subunits in regenerating liver cells in normal and thyroparathyroidectomized rats
T. YOUDALE, L. FRAPPIER, J.F. WHITFIELD, and R.H. RIXON **914**

Robinson, R.
A 68 000 dalton protein genetically associated with corticotropin-sensitive adenylate cyclase activity. Purification and preliminary characterization using a specific antiserum
BERNARD P. SCHIMMER, RANGA ROBINSON, JENNIVINE TSAO, and VALERIE M. WATT **601**

Rollin, C.F.
Purification, properties, and N-terminal amino acid sequence of certain 50S ribosomal subunit proteins from the archaebacterium *Halobacterium cutirubrum*
ALASTAIR T. MATHESON, MAKOTO YAGUCHI, PATRICIA CHRISTENSEN, C. FERNAND ROLLIN, and SADIQ HASNAIN **426**

Rothstein, A.
Membrane mythology: technical versus conceptual developments in the progress of research
A. ROTHSTEIN **1111**

The functional architecture of band 3, the anion transport protein of the red cell membrane
ASER ROTHSTEIN **1198**

Rowley, B.
Release of ferrous iron from ferritin by liver microsomes: a possible role in the toxicity of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin
BRUCE ROWLEY and GEORGE D. SWEENEY **1293**

Roy, R.
Improved procedures for the conjugation of oligosaccharides to protein by reductive amination
RENÉ ROY, EWA KATZENELLENBOGEN, and HAROLD J. JENNINGS **270**

Synthesis of acid phosphatase and other proteins by human prostatic tissue in vitro
J.Y. DUBÉ, P. CHAPDELAINE, R.R. TREMBLAY, M. THABET, and R. ROY **555**

Sackmann, E.
On the role of lipid-bilayer elasticity for the lipid–protein interaction and the indirect protein–protein coupling
E. SACKMANN, R. KOTULLA, and FRANZ-JOSEF HEISZLER **778**

Sadana, J.C.
The purification and properties of (1→4)-β-D-glucan cellobiohydrolase from *Sclerotium rolfsii*: substrate specificity and mode of action
RAJKUMAR V. PATIL and JAI C. SADANA **920**

Sanders, C.
Chicken gizzard tropomyosin: head-to-tail assembly and interaction with F-actin and troponin
CLIVE SANDERS and LAWRENCE B. SMILLIE **443**

Sandor, T.
A detailed investigation of the cytoplasmic cortisol-binding receptor of North American eel (*Anguilla rostrata*) tissues
JOHN A. DIBATTISTA, A.Z. MEHDI, and THOMAS SANDOR **991**

Sanwal, B.D.
Inhibition of fusion of skeletal myoblasts by tunicamycin and its reversal by *N*-acetylglucosamine
G.A. CATES, H. KAUR, and B.D. SANWAL **28**

Relationship between cell surface asparagine-linked glycoproteins and myoblast differentiation. Analysis of wheat germ agglutinin-resistant mutants
BRIAN M. GILFIX and BISHNU D. SANWAL **60**

Regulation of phosphatidylcholine synthesis and the activity of CTP:cholinephosphate cytidylyltransferase in myoblasts by 12-*O*-tetradecanoylphorbol-13-acetate
STEPHEN A. HILL, WILLIAM C. MCMURRAY, and BISHNU D. SANWAL **369**

Sargent, M.D.
Effects of Ca^{2+} and Mg^{2+} on the switch-on of transcriptase function in reovirus in vitro
M.D. SARGENT and J. BORSA **162**

Sarkar, B.
Comparative studies of manganese(II)-, nickel(II)-, zinc(II)-, copper(II)-, cadmium(II)-, and iron(III)-binding components in human cord and adult sera
SHOW-JY LAU and BIBUDHENDRA SARKAR **449**

Schachter, H.
Control of glycoprotein synthesis. IX. A terminal Manα1-3Manβ1-sequence in the substrate is the minimum requirement for UDP-*N*-acetyl-D-glucosamine:α-D-mannoside (GlcNAc to Manα1-3) β2-*N*-acetylglucosaminyltransferase I
GEORGE J. VELLA, HANS PAULSEN, and HARRY SCHACHTER **409**

Mucin synthesis. The action of pig gastric mucosal UDP-GlcNAc:Galβ1-3(R_1)GalNAc-R_2 (GlcNAc to Gal) β3-*N*-acetylglucosaminyltransferase on high molecular weight substrates
INKA BROCKHAUSEN, JEANNE ORR, and HARRY SCHACHTER **1081**

Schimmer, B.P.
A 68 000 dalton protein genetically associated with corticotropin-sensitive adenylate cyclase activity. Purification and preliminary characterization using a specific antiserum
BERNARD P. SCHIMMER, RANGA ROBINSON, JENNIVINE TSAO, and VALERIE M. WATT **601**

Schrader, T.J.
3-Aminobenzamide does not increase repair patch size in mammalian cells
IAN G. WALKER, JOHN P.H. TH'NG, TIMOTHY J. SCHRADER, and THOMAS W. NORRY **329**

Schumm, D.E.
Endogenous and exogenous factors affecting ribosomal RNA release from rat liver nuclei in a cell-free system
M.E. HANAUSEK-WALASZEK, B.T. FRENCH, D.E. SCHUMM, Z. WALASZEK, and T.E. WEBB **335**

Scrimgeour, K.G.
Folylpolyglutamate synthetase from beef liver: assay, stabilization, and characterization
Z.B. PRISTUPA, P.J. VICKERS, G.B. SEPHTON, and K.G. SCRIMGEOUR **495**

Seligy, V.L.
A genetical approach to the physical mapping of chloroplast genes in *Chlamydomonas*
CLAUDE LEMIEUX, MONIQUE TURMEL, VERNER L. SELIGY, and ROBERT W. LEE **225**

The induction of α-amylase by starch in *Aspergillus oryzae*: evidence for controlled mRNA expression
J.A. ERRATT, P.E. DOUGLAS, F. MORANELLI, and V.L. SELIGY **678**

Sephton, G.B.
Folylpolyglutamate synthetase from beef liver: assay, stabilization, and characterization
Z.B. PRISTUPA, P.J. VICKERS, G.B. SEPHTON, and K.G. SCRIMGEOUR **495**

Setterfield, G.
Purine and pyrimidine analogues irreversibly prevent passage of lymphocytes from the G_1 to the S phase of the cell cycle
CHRISTINE E. BOUMAH, GEORGE SETTERFIELD, and J. GORDIN KAPLAN **280**

Shamsuzzaman, K.
Purification and characterization of a chymosinlike protease from the gastric mucosa of harp seal (*Pagophilus groenlandicus*)
K. SHAMSUZZAMAN and N.F. HAARD **699**

Shen, R.-j.
Purification and properties of rice germ lectin
ZHAO-WEN SHEN, CE SUN, ZHENG ZHU, XI-HUA TANG, and RUI-JUAN SHEN **1027**

Shen, Z.-w.
Purification and properties of rice germ lectin
ZHAO-WEN SHEN, CE SUN, ZHENG ZHU, XI-HUA TANG, and RUI-JUAN SHEN **1027**

Shulman, M.J.
Biochemical genetics of the mouse IgM system
MARC J. SHULMAN, ROBERT G. HAWLEY, ATSUO OCHI, W.O.T. BACZYNSKY, CATHERINE COLLINS, NANCY PENNELL, M.J. POTASH, GEORGES KÖHLER, and NOBUMICHI HOZUMI **217**

Simpson, B.K.
Purification and characterization of trypsin from the Greenland cod (*Gadus ogac*). 1. Kinetic and thermodynamic characteristics
B.K. SIMPSON and N.F. HAARD **894**

Singer, M.
Permeability of bilayers composed of mixtures of saturated phospholipids: evidence for compositional segregation of lipids at phase boundaries
MAN YAT TSE and MICHAEL SINGER **72**

Skala, J.P.
Mechanisms of hormonal regulations in brown adipose tissue of developing rats
JOSEF P. SKALA **637**

Smillie, L.B.
Chicken gizzard tropomyosin: head-to-tail assembly and interaction with F-actin and troponin
CLIVE SANDERS and LAWRENCE B. SMILLIE **443**

Smith, I.C.P.
Anesthetic–membrane interaction: A ^2H nuclear magnetic resonance study of the binding of specifically deuterated tetracaine and procaine to phosphatidylcholine
ERIC C. KELUSKY and IAN C.P. SMITH **178**

Smith, J.P.
Studies on the effects of magnesium ion and propranolol on iris muscle phosphatidate phosphohydrolase
ATA A. ABDEL-LATIF and JACK P. SMITH **170**

Sodek, J.
Change in phenotype in long-term cultures of a clonal rat bone cell line: switch to the synthesis of α_1(I)-trimer collagen
HARDY LIMEBACK, KICHIBEE OTSUKA, KAM-LING YAO, JANE E. AUBIN, and JARO SODEK **462**

An osteonectinlike protein in porcine periodontal ligament and its synthesis by periodontal ligament fibroblasts
SAFIA WASI, KICHIBEE OTSUKA, KAM-LING YAO, PIERRE S. TUNG, JANE E. AUBIN, JARO SODEK, and JOHN D. TERMINE **470**

Sommerman, E.F.
Glucagon inhibits phosphatidylcholine biosynthesis via the CDP-choline and transmethylation pathways in cultured rat hepatocytes
STEVEN L. PELECH, P. HAYDN PRITCHARD, ERIC F. SOMMERMAN, ANTHONY PERCIVAL-SMITH, and DENNIS E. VANCE **196**

Stawinski, J.
The human preproinsulin gene: synthesis, cloning, gene modification, and expression studies
S.A. NARANG, R. BROUSSEAU, F. GEORGES, J. MICHNIEWICZ, G. PREFONTAINE, J. STAWINSKI, and W. SUNG **209**

Still, J.S.
Characteristics of skeletal muscle ecto-ATPase *in situ*
J.F. MANERY, E.E. DRYDEN, J.S. STILL, and G. MADAPALLIMATTAM **1015**

St-Pierre, S.
Séparation des virotoxines du champignon *Amanita virosa* et étude comparative de leur interaction sur l'actine *in vitro*
ANDRÉE TURCOTTE, CLAUDE GICQUAUD, MARTHE GENDREAU et SERGE ST-PIERRE **1327**

Strickland, K.P.
Characterization of an isozyme of *S*-adenosylmethionine synthetase from rat liver
C.H. LIN, W. CHUNG, K.P. STRICKLAND, and A.J. HUDSON **276**

Suelter, C.H.
Theory and practical application of coupled enzyme reactions: one and two auxiliary enzymes
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **945**

Theory and practical application of coupled enzyme systems: one and two coupling enzymes with mutarotation of an intermediate
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **956**

Suh, M.
Direction of synthesis of the message for a 35 000 polypeptide of herpes simplex virus type 2
ERIC FROST, MARIO FILION, and MARTHA SUH **266**

Sumathi, D.
Studies on the microsomal 11α-hydroxylation of progesterone in *Aspergillus ochraceus*: isolation, characterization, and solubilization of the hydroxylase system
K.M. MADYASTHA, C.R. JAYANTHI, P. MADYASTHA, and D. SUMATHI **100**

Sun, C.
Purification and properties of rice germ lectin
ZHAO-WEN SHEN, CE SUN, ZHENG ZHU, XI-HUA TANG, and RUI-JUAN SHEN **1027**

Sung, W.
The human preproinsulin gene: synthesis, cloning, gene modification, and expression studies
S.A. NARANG, R. BROUSSEAU, F. GEORGES, J. MICHNIEWICZ, G. PREFONTAINE, J. STAWINSKI, and W. SUNG **209**

Surewicz, W.K.
Effect of phase transitions on the interaction of peptides and proteins with phospholipids
RICHARD M. EPAND and WITOLD K. SUREWICZ **1167**

Suzuki, T.
Effect of taxol on the interaction of tubulin with myosin filaments
TOSHIHIRO FUJII, TATSUO SUZUKI, AKIRA HACHIMORI, MICHIYO FUJII, YOSHIYUKI KONDO, and KOSUKE OHKI **878**

Sweeney, G.D.
Release of ferrous iron from ferritin by liver microsomes: a possible role in the toxicity of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin
BRUCE ROWLEY and GEORGE D. SWEENEY **1293**

Sykes, B.D.
Fatty acyl chain structure, orientational order, and the lipid phase transition in *Acholeplasma laidlawii* B membranes. A review of recent ^{19}F nuclear magnetic resonance studies
P.M. MACDONALD, B.D. SYKES, and R.N. MCELHANEY **1134**

Szabo, S.P.
The low molecular weight autoinhibitor of sexual development in *Dictyostelium discoideum* inhibits cell fusion and zygote differentiation
STEPHEN P. SZABO and DANTON H. O'DAY **722**

Tam, S.W.
The effects of detergents on CDP-choline:1,2-diacylglycerol phosphocholine transferase from hamster heart
GILBERT ARTHUR, STANLEY W. TAM, and PATRICK C. CHOY **1059**

The hydrolysis of phosphatidylcholine by phospholipase A_2 in hamster heart
STANLEY W. TAM, RICKY Y.K. MAN, and PATRICK C. CHOY **1269**

Tancrède, P.
Les interactions moléculaires dans les membranes des photorécepteurs visuels. Étude en film monomoléculaire mixte
PIERRE TANCRÈDE **789**

Tang, X.-h.
Purification and properties of rice germ lectin
ZHAO-WEN SHEN, CE SUN, ZHENG ZHU, XI-HUA TANG, and RUI-JUAN SHEN **1027**

Termine, J.D.
An osteonectinlike protein in porcine periodontal ligament and its synthesis by periodontal ligament fibroblasts
SAFIA WASI, KICHIBEE OTSUKA, KAM-LING YAO, PIERRE S. TUNG, JANE E. AUBIN, JARO SODEK, and JOHN D. TERMINE **470**

Thabet, M.
Synthesis of acid phosphatase and other proteins by human prostatic tissue in vitro
J.Y. Dubé, P. Chapdelaine, R.R. Tremblay, M. Thabet, and R. Roy **555**

Thérien, H.-M.
Structural study on liver galactin
Julian Gruda and Hélène-Marie Thérien **1072**

Th'ng, J.P.H.
3-Aminobenzamide does not increase repair patch size in mammalian cells
Ian G. Walker, John P.H. Th'ng, Timothy J. Schraider, and Thomas W. Norry **329**

Tremblay, P.A.
Cytoplasmic membrane of *Rhizobium meliloti* bacteroids. II. Functional differentiation and generation of membrane potentials
P.A. Tremblay and R.W. Miller **592**

Tremblay, R.R.
Synthesis of acid phosphatase and other proteins by human prostatic tissue in vitro
J.Y. Dubé, P. Chapdelaine, R.R. Tremblay, M. Thabet, and R. Roy **555**

Treves, C.
On the interaction between synthetic detergents and enzymatic proteins
Cristina Treves, Maria Teresa Vincenzini, Fabio Favilli, Paolo Vanni, and Vincenzo Baccari **55**

Trust, T.J.
Surface layer virulence A-proteins from *Aeromonas salmonicida* strains
William W. Kay, Barry M. Phipps, Edward E. Ishiguro, Robert W. Olafson, and Trevor J. Trust **1064**

Tsao, J.
A 68 000 dalton protein genetically associated with corticotropin-sensitive adenylate cyclase activity. Purification and preliminary characterization using a specific antiserum
Bernard P. Schimmer, Ranga Robinson, Jennivine Tsao, and Valerie M. Watt **601**

Tse, M.Y.
Permeability of bilayers composed of mixtures of saturated phospholipids: evidence for compositional segregation of lipids at phase boundaries
Man Yat Tse and Michael Singer **72**

Tung, P.S.
An osteonectinlike protein in porcine periodontal ligament and its synthesis by periodontal ligament fibroblasts
Safia Wasi, Kichibee Otsuka, Kam-Ling Yao, Pierre S. Tung, Jane E. Aubin, Jaro Sodek, and John D. Termine **470**

Turbide, C.
Phosphorylation of the transferrin receptor in isolated sheep reticulocyte plasma membranes
Rose M. Johnstone, Mohammed Adam, Claire Turbide, and James Larrick **927**

Turcotte, A.
Séparation des virotoxines du champignon *Amanita virosa* et étude comparative de leur interaction sur l'actine *in vitro*
Andrée Turcotte, Claude Gicquaud, Marthe Gendreau et Serge St-Pierre **1327**

Turmel, M.
A genetical approach to the physical mapping of chloroplast genes in *Chlamydomonas*
Claude Lemieux, Monique Turmel, Verner L. Seligy, and Robert W. Lee **225**

Turpin, E.
Modification of biological activities of *Ricinus communis* agglutinin by cross-linking with formaldehyde
E. Turpin, J. Wantyghem, P. Beaudry, D. Néel, and Y. Goussault **203**

Vadasz, J.A.
Inhibition of DMSO-induced differentiation by hyperthermia in a murine erythroleukemia cell system
G.P. Raaphorst, E.I. Azzam, J. Borsa, M. Einspenner, and J.A. Vadasz **1091**

Vance, D.E.
Glucagon inhibits phosphatidylcholine biosynthesis via the CDP-choline and transmethylation pathways in cultured rat hepatocytes
Steven L. Pelech, P. Haydn Pritchard, Eric F. Sommerman, Anthony Percival-Smith, and Dennis E. Vance **196**

Van Huystee, R.B.
The heme moiety in peanut peroxidase
R.N. Chibbar, R. Cella, and R.B. Van Huystee **1046**

Vanni, P.
On the interaction between synthetic detergents and enzymatic proteins
Cristina Treves, Maria Teresa Vincenzini, Fabio Favilli, Paolo Vanni, and Vincenzo Baccari **55**

Vella, G.J.
Control of glycoprotein synthesis. IX. A terminal Manα1-3Manβ1-sequence in the substrate is the minimum requirement for UDP-*N*-acetyl-D-glucosamine:α-D-mannoside (GlcNAc to Manα1-3) β2-*N*-acetylglucosaminyltransferase I
George J. Vella, Hans Paulsen, and Harry Schachter **409**

Venyaminov, S.Y.
Physical studies on the ribosomal "A" protein from two archaebacteria, *Halobacterium cutirubrum* and *Methanobacterium thermoautotrophicum*
A.T. Gudkov, S. Yu Venyaminov, and A.T. Matheson **44**

Vickers, P.J.
Folylpolyglutamate synthetase from beef liver: assay, stabilization, and characterization
Z.B. Pristupa, P.J. Vickers, G.B. Sephton, and K.G. Scrimgeour **495**

Villalobo, A.
Energy-dependent H^+ and K^+ translocation by the reconstituted yeast plasma membrane ATPase
Antonio Villalobo **865**

Vincenzini, M.T.
On the interaction between synthetic detergents and enzymatic proteins
CRISTINA TREVES, MARIA TERESA VINCENZINI, FABIO FAVILLI, PAOLO VANNI, and VINCENZO BACCARI **55**

Walaszek, Z.
Endogenous and exogenous factors affecting ribosomal RNA release from rat liver nuclei in a cell-free system
M.E. HANAUSEK-WALASZEK, B.T. FRENCH, D.E. SCHUMM, Z. WALASZEK, and T.E. WEBB **335**

Wali, A.S.
Malate dehydrogenase from thermophilic *Humicola lanuginosa* and *Mucor pusillus*: purification and comparative properties of the enzymes with differing thermostabilities
ANUPAM S. WALI and AUTAR K. MATTOO **559**

Walker, I.G.
3-Aminobenzamide does not increase repair patch size in mammalian cells
IAN G. WALKER, JOHN P.H. TH'NG, TIMOTHY J. SCHRADER, and THOMAS W. NORRY **329**

Wang, Q.-S.
A highly thermostable proline:tRNA ligase from *Thermus aquatics*. Purification and enzyme–tRNA recognition at elevated temperatures
JORGE A. RIVERA, QI-SONG WANG, and J.TZE-FEI WONG **507**

Wantyghem, J.
Modification of biological activities of *Ricinus communis* agglutinin by cross-linking with formaldehyde
E. TURPIN, J. WANTYGHEM, P. BEAUDRY, D. NÉEL, and Y. GOUSSAULT **203**

Wasi, S.
An osteonectinlike protein in porcine periodontal ligament and its synthesis by periodontal ligament fibroblasts
SAFIA WASI, KICHIBEE OTSUKA, KAM-LING YAO, PIERRE S. TUNG, JANE E. AUBIN, JARO SODEK, and JOHN D. TERMINE **470**

Watt, V.M.
A 68 000 dalton protein genetically associated with corticotropin-sensitive adenylate cyclase activity. Purification and preliminary characterization using a specific antiserum
BERNARD P. SCHIMMER, RANGA ROBINSON, JENNIVINE TSAO, and VALERIE M. WATT **601**

Webb, T.E.
Endogenous and exogenous factors affecting ribosomal RNA release from rat liver nuclei in a cell-free system
M.E. HANAUSEK-WALASZEK, B.T. FRENCH, D.E. SCHUMM, Z. WALASZEK, and T.E. WEBB **335**

Weber, J.M.
Pulmonary surfactant
FRED POSSMAYER, SHOU-HWA YU, J. MARNIE WEBER, and PAUL G.R. HARDING **1121**

Weeks, G.
Studies on the unmasking of membrane-bound alkaline phosphatase during the differentiation of *Dictyostelium discoideum*
D.V. MOHAN DAS and GERALD WEEKS **970**

Whitfield, J.F.
Changes in the cytoplasmic and nuclear activities of the ribonucleotide reductase holoenzyme and its subunits in regenerating liver cells in normal and thyroparathyroidectomized rats
T. YOUDALE, L. FRAPPIER, J.F. WHITFIELD, and R.H. RIXON **914**

Wolff, B.R.
Effect of 12-*O*-tetracanoylphorbol-13-acetate on cell-surface glycosaminoglycans in human diploid fibroblasts
BRUCE R. WOLFF, BERNARD R. GLICK, and NIELS C. BOLS **1354**

Wong, J.T.-F.
A highly thermostable proline:tRNA ligase from *Thermus aquatics*. Purification and enzyme–tRNA recognition at elevated temperatures
JORGE A. RIVERA, QI-SONG WANG, and J.TZE-FEI WONG **507**

Wosu, L.
Interaction of high and low density lipoproteins on glycosaminoglycan secretion by human vascular smooth muscle cells and fibroblasts
LEONARD WOSU, SUZANNE MCCORMICK, and NORMAN KALANT **984**

Yacyshyn, B.J.
Rapid sensitive fluorescence assays for DNA endonucleases and DNA glycosylases
D.H. EVANS, F.X. BUGEJA, B.J. YACYSHYN, and A.R. MORGAN **1275**

Yaguchi, M.
Purification, properties, and N-terminal amino acid sequence of certain 50S ribosomal subunit proteins from the archaebacterium *Halobacterium cutirubrum*
ALASTAIR T. MATHESON, MAKOTO YAGUCHI, PATRICIA CHRISTENSEN, C. FERNAND ROLLIN, and SADIQ HASNAIN **426**

Yao, K.-L.
Change in phenotype in long-term cultures of a clonal rat bone cell line: switch to the synthesis of α_1(I)-trimer collagen
HARDY LIMEBACK, KICHIBEE OTSUKA, KAM-LING YAO, JANE E. AUBIN, and JARO SODEK **462**

An osteonectinlike protein in porcine periodontal ligament and its synthesis by periodontal ligament fibroblasts
SAFIA WASI, KICHIBEE OTSUKA, KAM-LING YAO, PIERRE S. TUNG, JANE E. AUBIN, JARO SODEK, and JOHN D. TERMINE **470**

Yott, B.
Inhibition of microtubule polymerization by micromolar concentrations of mercury(II)
ROBERT A.B. KEATES and BRIAN YOTT **814**

Youdale, T.
Changes in the cytoplasmic and nuclear activities of the ribonucleotide reductase holoenzyme and its subunits in regenerating liver cells in normal and thyroparathyroidectomized rats
T. YOUDALE, L. FRAPPIER, J.F. WHITFIELD, and R.H. RIXON **914**

Yu, P.H.
Photoactivated linkage of catechol *O*-methyltransferase and *S*-adenosyl-L-methionine
PETER H. YU **964**

Yu, S.-H.
Pulmonary surfactant
FRED POSSMAYER, SHOU-HWA YU, J. MARNIE WEBER, and PAUL G.R. HARDING **1121**

Zhu, Z.
Purification and properties of rice germ lectin
ZHAO-WEN SHEN, CE SUN, ZHENG ZHU, XI-HUA TANG, and RUI-JUAN SHEN **1027**

Zuckermann, M.J.
The thermodynamic properties of mixed phospholipid bilayers: a theoretical analysis
MARYSE MONDAT, A. GEORGALLAS, D.A. PINK, and M.J. ZUCKERMANN **796**

CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY/ REVUE CANADIENNE DE BIOCHIMIE ET BIOLOGIE CELLULAIRE

VOLUME 62 (1984)

SUBJECT INDEX/INDEX DES MATIÈRES

Absorption spectrum catalase Proteus 935
Acetylglucosamine glycoprotein myoblast fusion 28
Acetylglucosaminyltransferase mannoside specificity colostrum 409
Acetylglucosaminyltransferase stomach mucin formation 1081
Achlya mitochondria DNA mapping 571
Acholeplasma membrane lipid phase review 1134
Achyla protein shock heat nutrition 837
Acid phosphatase formation prostate 555
Actin assocn tropomyosin 443
Actin polymn lysine residue 191
Actin polymn virotoxin Amanita 1327
Actinin gelactin structure 1072
Acylation lysophosphatidylcholine platelet 827
Adenosylmethionine photochem crosslinking catechol methyltransferase 964
Adenosylmethionine synthetase isoenzyme liver 276
Adenylate cyclase complex adipocyte obesity 819
Adenylate cyclase corticotropin protein adrenal 601
Adipocyte adenylate cyclase complex obesity 819
Adipocyte membrane insulin receptor protein 566
Adipose brown energy obesity review 610
Adipose brown ontogeny hormone review 637
Adipose brown thermogenesis hormone review 623
Adipose brown thermogenesis metab review 618
Adipose thermogenesis hormone receptor review 631
Adipose uncoupling protein formation ontogeny 479
Adrenal protein corticotropin adenylate cyclase 601
Adrenergic receptor analogy catalase review 1006
Aeromonas outer membrane protein A 1064
Affinity chromatog trypsin 894
Agglutinin Ricinus crosslinking formaldehyde 203
Aggregation diffusion membrane review 1158
Algorithm coupled enzyme system mutarotation intermediate 956
Alk phosphatase membrane Dictyostelium development 970
Alkenylacylglycerol gas chromatog glycerophospholipid 352
Amanita virotoxin actin polymn 1327
Amination reductive oligosaccharide conjugation protein 270
Amino acid nomenclature newsletter viii
Aminobenzamide glioblastoma DNA repair 329
Ammonia development sexual Dictyostelium 722
Amylase induction Aspergillus 678
Androgen uptake nucleus purifn carcinoma 121
Anesthetic local phosphatidylcholine membrane 178
Angiotensinogen renin tonin kinetics 137
Anguilla cortisol receptor gill intestine 991
Antibody antiidiotypic hormone receptor review 1255
Antibody enkephalin cross reactivity cholecystokinin peptide 1097
Antibody hexose transport activation myoblast 245
Antibody stimulation mechanism hexose transport 255
Anticoagulant heparin mechanism thrombin antithrombin 975
Antifreeze glycoprotein stomach acetylglucosaminyltransferase 1081
Antigen Pasteurella lipopolysaccharide polysaccharide structure 108
Antiidiotypic antibody hormone receptor review 1255
Antithrombin thrombin heparin anticoagulant mechanism 975
Antitrypsin oligosaccharide 19
Antitrypsin PiZ oligosaccharide compn serum 288
Aorta glycosaminoglycan secretion lipoprotein 984
Apolipoprotein C II variant deficiency 847
Asialoglycoprotein vesicle liver 1051
Asialotransferrin resialylation liver 853
Asparagine linked oligosaccharide formation acetylglucosaminyltransferase 409
Aspergillus amylase induction 678
Aspergillus progesterone hydroxylase component 100
ATPase muscle membrane 1015
ATPase Saccharomyces membrane proton transport 998
ATPase Schizosaccharomyces hydrogen potassium transport 865
ATPase structure Escherichia review 1190
Azaguanine lymphocyte cell cycle 280
Azide electron transport system Neurospora 129
Bacteria isolation protein surface array review 1181
Bacteroid Rhizobium cell membrane potential 592
Band 3 protein conformation cholesterol 1033
Band 3 protein structure review 1198
Basic protein myelin dipalmitoylphosphatidylglycerol complex 11
Bilayer lipid elasticity review 778
Bilayer phospholipid model review 760
Bilayer phospholipid thermodn model 796
Biochem review 1103
Blastocyst outgrowth microtubule assocd protein 885
Blood platelet phosphatidylcholine formation 827
Blood platelet phosphatidylinositol phospholipase C 115
Blood platelet phospholipid thrombin review 341
Bone collagen formation culture genetics 462
Brain microtubule protein purifn 803
Brassinosteroid monoclonal antibody 715
Brown adipose energy obesity review 610
Brown adipose ontogeny hormone review 637
Brown adipose thermogenesis hormone review 623
Brown adipose thermogenesis metab review 618
Cabbage dipeptidyl tetrapeptide hydrolase 516
Caerulein zymogen granule release pancreas 1288
Calcium binding erythrocyte membrane 398
Calcium binding protein intestine structure 434
Calcium insulin sugar transport review 1228
Calcium polyphosphoinositide metab erythrocyte 363
Calcium reovirus transcriptase switchon 162
Calcium Rhizobium membrane potential nitrogenase 592
Calmodulin chromatog liposome encapsulation 648
cAMP development sexual Dictyostelium 722
Capsule polysaccharide Streptococcus 151
Capsule Streptococcus polysaccharide structure 1309
Carbohydrate compn antitrypsin PiZ serum 288
Carcinogenesis xenobiotic metab liver review 486
Carcinoma nucleus purifn androgen uptake 121
Carrier electrolyte transport lipid membrane 738
Catalase property review 1006
Catalase Proteus peroxide resistant mutant 935
Catechol methyltransferase photochem crosslinking adenosylmethionine 964
Cathepsin spleen 1301
Cation hardness hydroxymethylbilane synthase inhibition 49
Cation iris phosphatidate phosphohydrolase 170
Cation reovirus transcriptase switchon 162
cDNA myosin mRNA rat heart 185

CDP diglyceride hydrolase liver mitochondria 1205
Cell cycle lymphocyte purine analog 280
Cell fusion Dictyostelium autoinhibitor 722
Cell glycosaminoglycan secretion lipoprotein 984
Cell membrane glycocalyx eukaryote review 1151
Cell membrane potential Rhizobium bacteroid 592
Cellobiohydrolase glucan Sclerotium 920
cGMP phosphodiesterase retina degeneration review 535
Chlamydomonas chloroplast gene mapping 225
Chloroplast gene mapping Chlamydomonas 225
Cholecystokinin peptide antibody enkephalin cross reactivity 1097
Cholesterol aorta fibroblast lipoprotein 984
Cholesterol band 3 protein conformation 1033
Cholesterol binding protein chromatin spleen 94
Cholesterol liver diet sterol 1
Chromatin cholesterol binding protein spleen 94
Chromatog affinity trypsin 894
Chromatog calmodulin 648
Chromatog gas alkenylacylglycerol 352
Chromatog gel nitrobenzylthioinosine erythrocyte 1283
Chromatog reversed phase liq diacylglycerol 301
Chymosin stomach mucosa harp seal 699
Cloning human preproinsulin gene 209
Clusterin isoelec form testis fluid Sertoli 456
CMP glyceride fatty acid incorporation 379
Collagen formation bone culture genetics 462
Colostrum mannoside acetylglucosaminyltransferase specificity 409
Complement C1q receptor IgG review 418
Complex glycoprotein myoblast differentiation 60
Con A mRNA lymphocyte activation 859
Condensation dipalmitoylphosphatidylcholine epicoprostanol membrane 732
Conformation band 3 protein cholesterol 1033
Conformation protein A ribosome Halobacterium Methanobacterium 44
Corticotropin adenylate cyclase protein adrenal 601
Cortisol receptor gill intestine Anguilla 991
Coupled enzyme system mutarotation intermediate algorithm 956
Coupled enzyme system theory application 945
Crosslinking photochem catechol methyltransferase adenosylmethionine 964
Culture bone collagen formation genetics 462
Cyanide insensitive respiration Neurospora 129
Cyclase adenylate complex adipocyte obesity 819
Cyclase adenylate corticotropin protein adrenal 601
Cycloheximide mRNA lymphocyte 859
Cytidylyltransferase CTP choline phosphate TPA 369
Cytochrome oxidase azide Neurospora respiration 129
Cytochrome P450 progesterone hydroxylase Aspergillus 100
Cytoskeleton hormone action review 653
Degeneration retina review 535
Dehydrogenase glucose phosphate hexokinase coupled system 956
Dehydrogenase malate Humicola Mucor 559
Detergent diglyceride phosphocholine transferase heart 1059
Detergent interaction enzyme 55
Development brown adipose hormone review 637
Development Dictyostelium membrane alk phosphatase 970
Development Phasarum membrane protein 831
Development sexual Dictyostelium ammonia cAMP 722
Development uncoupling protein formation adipose 479
Diacylglycerol detn glycerophospholipid 301
Diacylglycerol heart kidney phosphatidylethanolamine 352
Dictyostelium development membrane alk phosphatase 970
Dictyostelium development sexual ammonia cAMP 722
Differentiation erythroleukemia teratocarcinoma DNA methylation 584
Diffusion aggregation membrane review 1158
Diglyceride phosphocholine transferase heart detergent 1059
Dihydrotestosterone uptake nucleus mammary carcinoma 121
Dihydroxyvitamin D3 liver regeneration reductase 914
Dipalmitoylphosphatidylcholine condensation epicoprostanol membrane 732
Dipeptidyl tetrapeptide hydrolase cabbage 516
DMSO erythroleukemia differentiation heat 1091
DNA endonuclease glycosylase detn fluorometry 1275
DNA methylation teratocarcinoma erythroleukemia differentiation 584
DNA mitochondria mapping Achlya 571
DNA repair glioblastoma aminobenzamide 329
DNA transcription termination regulation Escherichia 79
DNase binding actin lysine residue 191
DNase detn fluorometry 1275
Eel cortisol receptor gill intestine 991
EGF somatomedin formation embryo 1335
EGTA glyceride fatty acid incorporation 379
Elasticity lipid bilayer review 778
Electrolyte transport carrier lipid membrane 738
Electron transport system Neurospora azide 129
Electrophoresis free flow asialoglycoprotein vesicle 1051
Embryo somatomedin formation EGF 1335
Embryo wheat germination RNA labeling 321
Encapsulation liposome calmodulin 648
Endonuclease DNA detn fluorometry 1275
Energy brown adipose obesity review 610
Enkephalin antibody cross reactivity cholecystokinin peptide 1097
Enzyme coupled system mutarotation intermediate algorithm 956
Enzyme coupled system theory application 945
Enzyme interaction detergent 55
Enzyme nomenclature newsletter Issue 1 viii
Epicoprostanol phosphatidylcholine membrane mol packing 732
EPR catalase Proteus 935
Erythrocyte band 3 protein review 1198
Erythrocyte membrane calcium binding 398
Erythrocyte nitrobenzylthioinosine binding sepn 1283
Erythrocyte polyphosphoinositide metab calcium 363
Erythroleukemia differentiation DMSO heat 1091
Erythroleukemia differentiation DNA methylation 584
Erythropoiesis transferrin receptor metab review 1246
Erythropoietin uridine metab hepatocyte 143
Escherichia ATPase structure review 1190
Escherichia DNA transcription termination regulation 79
Escherichia protein formation accuracy review 231
Estrogen urine pregnancy hypertension 547
Eukaryote cell membrane glycocalyx review 1151
Factor Xa heparin thrombin inactivation 975
Fatty acid Acholeplasma membrane review 1134
Fatty acid incorporation nerve nucleus 379
Fatty acid photoreactive liver microsome 375
Ferritin iron liver microsome TCDD 1293
Fetus brown adipose hormone review 637
Fetus serum metal binding component 449
Fetus uncoupling protein formation adipose 479
Fibroblast glycosaminoglycan secretion lipoprotein 984
Fibroblast skin glycosaminoglycan TPA 1354
Filament myosin tubulin interaction polymn 878
Fluid testis clusterin isoelec form 456
Fluorometry DNA endonuclease glycosylase detn 1275
Fluorouracil lymphocyte cell cycle 280
Folylpolyglutamate synthetase liver 495
Force phys membrane review 752
Formaldehyde crosslinking Ricinus agglutinin 203
Free flow electrophoresis asialoglycoprotein vesicle 1051
Fusion myoblast glycoprotein acetylglucosamine 28
Gadus trypsin purifn kinetics thermodn 894
Galactosidase beta mol form placenta 529
Gas chromatog alkenylacylglycerol 352
Gel chromatog nitrobenzylthioinosine erythrocyte 1283
Gelactin structure liver actinin 1072
Gene chloroplast mapping Chlamydomonas 225
Gene human preproinsulin synthesis cloning sequence 209

Gene IgM mouse 217
Gene nusA protein Escherichia 79
Gene protamine promoter transcription trout 291
Genetics collagen formation bone culture 462
Genetics IgM mouse 217
Germ rice lectin purifn property 1027
Germin wheat proteinase resistance 1351
Germination wheat embryo RNA labeling 321
Gill cortisol receptor Anguilla 991
Glioblastoma DNA repair aminobenzamide 329
Glucagon phosphatidylcholine formation liver 196
Glucan cellobiohydrolase Sclerotium 920
Glucoamylase maltase structure intestine 36
Glucocorticoid receptor gill intestine Anguilla 991
Glucose phosphate dehydrogenase hexokinase coupled system 956
Glyceride fatty acid incorporation nerve 379
Glycerol diacyl detn glycerophospholipid 301
Glycerol microtubule protein tubulin purifn 803
Glycerol platelet phosphatidylcholine formation 827
Glycerophospholipid alkenylacylglycerol gas chromatog 352
Glycerophospholipid diacylglycerol detn 301
Glycocalyx eukaryote cell membrane review 1151
Glycoprotein acetylglucosamine myoblast fusion 28
Glycoprotein antifreeze stomach acetylglucosaminyltransferase 1081
Glycoprotein clusterin rete testis fluid Sertoli 456
Glycoprotein complex myoblast differentiation 60
Glycoprotein surface array bacteria review 1181
Glycosaminoglycan fibroblast skin TPA 1354
Glycosaminoglycan secretion cell lipoprotein 984
Glycosphingolipid plasma lipoprotein review 385
Glycosylase DNA detn fluorometry 1275
Granule zymogen release pancreas secretagogue 1288
Greenland cod trypsin 894
Growth regulator plant monoclonal antibody 715
Halobacterium protein A conformation ribosome 44
Halobacterium ribosome subunit protein purifn sequence 426
Harp seal stomach mucosa chymosin 699
Heart diglyceride phosphocholine transferase detergent 1059
Heart lipoprotein lipase perfusion 89
Heart myosin mRNA cDNA rat 185
Heart phosphatidylethanolamine diacylglycerol 352
Heat DMSO erythroleukemia differentiation 1091
Heat shock protein Achyla 837
Heat shock protein Neurospora 691
Heme peroxidase peanut 1046
Heparin anticoagulant mechanism thrombin antithrombin 975
Hepatocyte uridine metab erythropoietin 143
Herpes virus mRNA 35000 protein 266
Hexokinase glucose phosphate dehydrogenase coupled system 956
Hexosaminidase galactosidase antigen identity 529
Hexose transport activation antibody myoblast 245
Hexose transport antibody stimulation mechanism 255
Hexose transport myoblast membrane vesicle 1217
Human preproinsulin gene synthesis cloning sequence 209
Humicola malate dehydrogenase 559
Hydrogen potassium transport Schizosaccharomyces ATPase 865
Hydrolase CDP diglyceride liver mitochondria 1205
Hydrolase dipeptidyl tetrapeptide cabbage 516
Hydroxylase progesterone component Aspergillus 100
Hydroxymethylbilane synthase inhibition cation hardness 49
Hypertension pregnancy estrogen urine 547
IAA oxidase heme 1046
IgG complement C1q receptor review 418
IgM genetics mouse 217
Insulin receptor protein adipocyte membrane 566
Insulin sugar transport calcium review 1228
Insulinlike growth factor review 1237
Intestine calcium binding protein structure 434
Intestine cortisol receptor Anguilla 991
Intestine maltase glucoamylase structure 36
Iris phospohatidate phsophohydrolase propranolol magnesium 170
Iron ferritin liver microsome TCDD 1293
Isoelec form clusterin testis fluid Sertoli 456
Isoenzyme adenosylmethionine synthetase liver 276
Kidney oxo PGE1 metab 709
Kidney phosphatidylethanolamine diacylglycerol 352
Lambda phage gene N protein 79
Lectin rice germ purifn property 1027
Leukocyte leukotriene B4 oxidn 1321
Leukotriene B4 oxidn leukocyte 1321
Ligament periodontal osteonectin formation distribution 470
Ligase dipeptidyl cabbage 516
Lipase lipoprotein heart perfusion 89
Lipase lipoprotein hydrolysis model 1076
Lipid bilayer elasticity review 778
Lipid membrane carrier electrolyte transport 738
Lipid membrane diffusion aggregation review 1158
Lipid phase membrane Acholeplasma review 1134
Lipid protein bilayer review simulation 760
Lipopolysaccharide polysaccharide structure Pasteurella antigen 108
Lipoprotein glycosaminoglycan secretion cell 984
Lipoprotein hydrolysis lipase model 1076
Lipoprotein lipase heart perfusion 89
Lipoprotein plasma glycosphingolipid review 385
Liposome encapsulation calmodulin 648
Liposome phospholipid permeability phase boundary 72
Liposome virus protein M N assocn 1174
Liq chromatog reversed phase diacylglycerol 301
Liver adenosylmethionine synthetase isoenzyme 276
Liver asialoglycoprotein vesicle 1051
Liver asialotransferrin resialylation 853
Liver cholesterol diet sterol 1
Liver folylpolyglutamate synthetase 495
Liver galactin structure actinin 1072
Liver microsome iron ferritin TCDD 1293
Liver microsome photoreactive fatty acid 375
Liver mitochondria CDP diglyceride hydrolase 1205
Liver nucleus rRNA release protein 335
Liver phosphatidylcholine formation glucagon 196
Liver preneoplastic xenobiotic metab review 486
Liver regeneration ribonucleotide reductase subunit 914
Lung surfactant review 1121
Lymphocyte cell cycle purine analog 280
Lymphocyte mRNA activation Con A 859
Lymphocyte T purine metab 577
Lysine residue actin polymn 191
Lysophosphatidylcholine acylation platelet 827
Macallum Archibald biochem dedication Issue 6 viii
Magnesium dipalmitoylphosphatidylglycerol complex 11
Magnesium iris phospohatidate phsophohydrolase 170
Magnesium reovirus transcriptase switchon 162
Malate dehydrogenase Humicola Mucor 559
Maltase glucoamylase structure intestine 36
Mammary carcinoma nucleus dihydrotestosterone uptake 121
Mannoside acetylglucosaminyltransferase specificity colostrum 409
Mapping chloroplast gene Chlamydomonas 225
Mapping mitochondria DNA Achlya 571
Mass spectroscopy diacylglycerol 301
Matrix nucleocapsid protein virus assocn phospholipid 1174
Membrane alk phosphatase Dictyostelium development 970
Membrane ATPase Saccharomyces proton transport 998
Membrane cell glycocalyx eukaryote review 1151
Membrane diffusion aggregation review 1158
Membrane epicoprostanol phosphatidylcholine mol packing 732
Membrane erythrocyte calcium binding 398

Membrane insulin receptor protein adipocyte 566
Membrane lipid carrier electrolyte transport 738
Membrane lipid phase Acholeplasma review 1134
Membrane muscle ATPase 1015
Membrane outer protein A Aeromonas 1064
Membrane phosphatidylcholine local anesthetic 178
Membrane phospholipid monolayer bilayer review 760
Membrane phys force review 752
Membrane potential potassium transport yeast 865
Membrane potential Rhizobium bacteroid 592
Membrane protein Phasarum plasmodium development 831
Membrane reticulocyte transferrin receptor phosphorylation 927
Membrane retinal interaction phospholipid 789
Membrane theory review 1111
Membrane vesicle myoblast hexose transport 1217
Mercury microtubule polymn 814
Metab brown adipose thermogenesis review 618
Metal binding component serum fetus 449
Methanobacterium protein A conformation ribosome 44
Methylation DNA teratocarcinoma erythroleukemia differentiation 584
Methylcytosine DNA teratocarcinoma erythroleukemia differentiation 584
Methyltransferase catechol photochem crosslinking adenosylmethionine 964
Microsome liver iron ferritin TCDD 1293
Microsome liver photoreactive fatty acid 375
Microtubule assocd protein blastocyst outgrowth 885
Microtubule polymn mercury 814
Microtubule protein tubulin purifn glycerol 803
Mitochondria CDP diglyceride hydrolase liver 1205
Mitochondria DNA mapping Achlya 571
Model lipase lipoprotein hydrolysis 1076
Model phospholipid bilayer monolayer review 760
Model thermodn phospholipid bilayer 796
Mol structure polysaccharide Streptococcus 666
Monoclonal antibody plant growth regulator 715
Monolayer phospholipid model review 760
Mouse IgM genetics 217
mRNA amylase induction Aspergillus 678
mRNA lymphocyte activation Con A 859
mRNA myosin cDNA rat heart 185
mRNA 35000 protein herpes virus 266
Mucin formation stomach acetylglucosaminyltransferase 1081
Mucor malate dehydrogenase 559
Muscle membrane ATPase 1015
Mutarotation intermediate coupled enzyme system algorithm 956
Mutation ribosome translation accuracy review 231
Mycoplasma phosphate distribution transport 1041
Myelin basic protein dipalmitoylphosphatidylglycerol complex 11
Myoblast differentiation complex glycoprotein 60
Myoblast fusion glycoprotein acetylglucosamine 28
Myoblast hexose transport activation antibody 245
Myoblast membrane vesicle hexose transport 1217
Myoblast phosphatidylcholine phorbol ester 369
Myosin filament tubulin interaction polymn 878
Myosin mRNA cDNA rat heart 185
Neomycin protein formation Escherichia review 231
Nerve nucleus fatty acid incorporation 379
Neurospora electron transport system azide 129
Neurospora heat shock protein 691
Newsletter IUB IUPAC nomenclature Issue 1 viii
Nitrobenzylthioinosine binding sepn erythrocyte 1283
Nitrogenase Rhizobium calcium membrane potential 592
Nomenclature IUB IUPAC newsletter Issue 1 viii
Norepinephrine brown adipose ontogeny review 637
Nucleocapsid matrix protein virus assocn phospholipid 1174
Nucleoside purine metab T lymphocyte 577
Nucleoside transport nitrobenzylthioinosine 1283
Nucleotidase Dictyostelium alk phosphatase 970
Nucleus liver rRNA release protein 335
Nucleus nerve fatty acid incorporation 379
Nucleus purifn carcinoma androgen uptake 121
Nutrition shock protein Achyla 837
Obesity adenylate cyclase complex adipocyte 819
Obesity brown adipose energy review 610
Oligosaccharide antitrypsin transferrin 19
Oligosaccharide asparagine linked formation acetylglucosaminyltransferase 409
Oligosaccharide compn antitrypsin PiZ serum 288
Oligosaccharide conjugation protein reductive amination 270
Oligosaccharide glycoprotein myoblast differentiation 60
Ontogeny brown adipose hormone review 637
Ontogeny uncoupling protein formation adipose 479
Osteonectin formation distribution periodontal ligament 470
Outer membrane protein A Aeromonas 1064
Oxidase cytochrome azide Neurospora respiration 129
Oxidase IAA heme 1046
Oxo PGE1 metab kidney 709
Packing mol epicoprostanol phosphatidylcholine membrane 732
Pagophilus stomach mucosa chymosin 699
Palate somatomedin formation embryo 1335
Pancreas zymogen granule release secretagogue 1288
Pasteurella lipopolysaccharide polysaccharide structure antigen 108
Peanut heme peroxidase 1046
Pedilanthus peroxidase isolation characterization 901
Peptide cholecystokinin antibody enkephalin cross reactivity 1097
Peptide nomenclature newsletter Issue 1 viii
Peptide phospholipid phase transition review 1167
Perfusion heart lipoprotein lipase 89
Periodontal ligament osteonectin formation distribution 470
Permeability phospholipid liposome phase boundary 72
Peroxidase heme peanut 1046
Peroxidase Pedilanthus isolation characterization 901
Peroxide resistant mutant Proteus catalase 935
PGE1 oxo metab kidney 709
Phage lambda gene N protein 79
Phasarum plasmodium protein membrane 831
Phase boundary phospholipid liposome permeability 72
Phase diagram phospholipid bilayer model 796
Phase diagram phospholipid retinal membrane 789
Phase epicoprostanol phosphatidylcholine membrane 732
Phase lipid membrane Acholeplasma review 1134
Phase transition bilayer review 760
Phase transition protein phospholipid review 1167
Phorbol ester glycosaminoglycan fibroblast 1354
Phorbol ester phosphatidylcholine myoblast 369
Phosphalipase heart phosphatidylcholine hydrolysis 1269
Phosphatase acid formation prostate 555
Phosphatase alk membrane Dictyostelium development 970
Phosphate Mycoplasma distribution transport 1041
Phosphatidate formation erythrocyte calcium 363
Phosphatidylcholine epicoprostanol membrane mol packing 732
Phosphatidylcholine formation liver glucagon 196
Phosphatidylcholine formation platelet 827
Phosphatidylcholine hydrolysis phosphalipase heart 1269
Phosphatidylcholine interaction retinal membrane 789
Phosphatidylcholine membrane local anesthetic 178
Phosphatidylcholine myoblast phorbol ester 369
Phosphatidylethanolamine heart kidney diacylglycerol 352
Phosphatidylethanolamine interaction retinal membrane 789
Phosphatidylglycerol magnesium myelin basic protein 11
Phosphatidylinositol phospholipase C specificity platelet 115
Phosphodiesterase cGMP retina degeneration review 535
Phospholipase C phosphatidylinositol specificity platelet 115

Phospholipid bilayer monolayer model review 760
Phospholipid bilayer thermodn model 796
Phospholipid calcium binding erythrocyte membrane 398
Phospholipid liposome permeability phase boundary 72
Phospholipid matrix nucleocapsid protein virus assocn 1174
Phospholipid metab platelet thrombin review 341
Phospholipid protein phase transition review 1167
Phospholipid retinal interaction membrane 789
Phosphorylation transferrin receptor reticulocyte membrane 927
Phospohatidate phsophohydrolase iris propranolol magnesium 170
Photochem crosslinking catechol methyltransferase adenosylmethionine 964
Photoreactive fatty acid liver microsome 375
Phsophohydroiase phospohatidate iris propranolol magnesium 170
Phys force membrane review 752
Phytosterol diet liver cholesterol 1
Placenta beta galactosidase mol form 529
Piant growth regulator monoclonal antibody 715
Plasma lipoprotein glycosphingolipid review 385
Platelet phosphatidylcholine formation 827
Platelet phosphatidylinositol phospholipase C specificity 115
Platelet phospholipid metab thrombin review 341
Polymn actin lysine residue 191
Polymn tubulin interaction myosin filament 878
Polynucleotide nomenclature newsletter Issue 1 viii
Polyphosphoinositide metab erythrocyte calcium 363
Polysaccharide capsule Streptococcus 151
Polysaccharide lipopolysaccharide structure Pasteurella antigen 108
Polysaccharide Streptococcus mol structure 666
Polysaccharide structure Streptococcus capsule 1309
Potassium hydrogen transport Schizosaccharomyces ATPase 865
Potassium reovirus transcriptase switchon 162
Potential cell membrane Rhizobium bacteroid 592
Pregnancy hypertension estrogen urine 547
Preneoplastic liver xenobiotic metab review 486
Preproinsulin gene human synthesis cloning sequence 209
Probe lipid bilayer perturbation review 760
Progesterone hydroxylase component Aspergillus 100
Prolyl tRNA synthetase Thermus 507
Promoter protamine gene transcription trout 291
Propranolol iris phospohatidate phsophohydrolase 170
Prostate acid phosphatase formation 555
Protamine gene promoter transcription trout 291
Protein A Aeromonas outer membrane 1064
Protein A conformation ribosome Halobacterium Methanobacterium 44
Protein adrenal corticotropin adenylate cyclase 601
Protein band 3 conformation cholesterol 1033
Protein band 3 structure review 1198
Protein calcium binding intestine structure 434
Protein cholesterol binding chromatin spleen 94
Protein Ec Em wheat germ 908
Protein formation accuracy Escherichia review 231
Protein formation lymphocyte Con A 859
Protein formation prostate 555
Protein gene nusA Escherichia 79
Protein heat shock Neurospora 691
Protein insulin receptor adipocyte membrane 566
Protein lipid bilayer review simulation 760
Protein lipid interaction bilayer review 778
Protein M N virus assocn liposome 1174
Protein membrane diffusion aggregation review 1158
Protein membrane Phasarum plasmodium development 831
Protein metal binding serum fetus 449
Protein microtubule assocd blastocyst outgrowth 885
Protein microtubule purifn glycerol 803
Protein myelin basic dipalmitoylphosphatidylglycerol complex 11
Protein oligosaccharide conjugation reductive amination 270
Protein phospholipid phase transition review 1167
Protein retina degeneration review 535
Protein ribosome subunit purifn sequence Halobacterium 426
Protein rRNA release liver nucleus 335
Protein shock heat nutrition Achyla 837
Protein surface array bacteria isolation review 1181
Protein uncoupling formation adipose ontogeny 479
Protein 35000 mRNA herpes virus 266
Proteinase resistance germin wheat 1351
Proteus peroxide resistant mutant catalase 935
Proton transport Saccharomyces ATPase membrane 998
Purine analog lymphocyte cell cycle 280
Purine metab T lymphocyte 577
Pyrimidine analog lymphocyte cell cycle 280
Rat heart myosin mRNA cDNA 185
Receptor adrenergic analogy catalase review 1006
Receptor complement C1q IgG review 418
Receptor cortisol gill intestine Anguilla 991
Receptor hormone adipose thermogenesis review 631
Receptor hormone antiidiotypic antibody review 1255
Receptor insulin adipocyte membrane 566
Receptor insulinlike growth factor review 1237
Receptor transferrin metab erythropoiesis review 1246
Receptor transferrin phosphorylation reticulocyte membrane 927
Reductase cytochrome c progesterone hydroxylase Aspergillus 100
Reductase ribonucleotide subunit liver regeneration 914
Reductive amination oligosaccharide conjugation protein 270
Regeneration liver ribonucleotide reductase subunit 914
Renin tonin kinetics angiotensinogen 137
Rennin stomach mucosa harp seal 699
Reovirus transcriptase switchon cation 162
Research Conference Rossiter 1101
Resialylation asialotransferrin liver 853
Respiration Neurospora cytochrome oxidase azide 129
Reticulocyte maturation transferrin receptor review 1246
Reticulocyte membrane transferrin receptor phosphorylation 927
Retina degeneration review 535
Retinal interaction phospholipid membrane 789
Retinitis pigmentosa review 535
Reversed phase liq chromatog diacylglycerol 301
Review Acholeplasma membrane lipid phase 1134
Review ATPase structure Escherichia 1190
Review band 3 protein structure 1198
Review biochem 1103
Review brown adipose energy obesity 610
Review brown adipose thermogenesis hormone 623
Review brown adipose thermogenesis metab 618
Review catalase property 1006
Review eukaryote cell membrane glycocalyx 1151
Review hormone action cytoskeleton 653
Review hormone brown adipose ontogeny 637
Review hormone receptor antiidiotypic antibody 1255
Review IgG complement C1q receptor 418
Review insulin sugar transport calcium 1228
Review insulinlike growth factor 1237
Review lipid bilayer elasticity 778
Review low mol wt rRNA 311
Review lung surfactant 1121
Review membrane diffusion aggregation 1158
Review membrane phys force 752
Review membrane theory 1111
Review phospholipid bilayer monolayer model 760
Review phospholipid metab platelet thrombin 341
Review plasma lipoprotein glycosphingolipid 385
Review protein formation accuracy Escherichia 231
Review protein phospholipid phase transition 1167
Review protein surface array bacteria isolation 1181
Review receptor hormone adipose thermogenesis 631
Review retinitis pigmentosa retina degeneration 535

Review transferrin receptor metab erythropoiesis 1246
Review xenobiotic metab preneoplastic liver 486
Rhizobium bacteroid cell membrane potential 592
Ribonucleotide reductase subunit liver regeneration 914
Ribosome mutation translation accuracy review 231
Ribosome protein A conformation Halobacterium Methanobacterium 44
Ribosome subunit protein purifn sequence Halobacterium 426
Rice germ lectin purifn property 1027
Ricinus agglutinin crosslinking formaldehyde 203
RNA labeling wheat embryo germination 321
Rossiter Research Conference 1101
rRNA low mol wt review 311
rRNA release liver nucleus protein 335
Saccharomyces ATPase membrane proton transport 998
Salt ATPase Saccharomyces membrane 998
Schizosaccharomyces ATPase hydrogen potassium transport 865
Sclerotium glucan cellobiohydrolase 920
Seal harp stomach mucosa chymosin 699
Secretin zymogen granule release pancreas 1288
Sequence human preproinsulin gene 209
Sequence protein ribosome subunit Halobacterium 426
Sequence wheat germ protein Ec 908
Sertoli clusterin isoelec form 456
Serum antitrypsin PiZ oligosaccharide compn 288
Serum metal binding component fetus 449
Sialooligosaccharide antitrypsin transferrin 19
Simulation lipid protein bilayer review 760
Skin fibroblast glycosaminoglycan TPA 1354
Sodium reovirus transcriptase switchon 162
Somatomedin formation embryo EGF 1335
Spectroscopy mass diacylglycerol 301
Spectrum absorption catalase Proteus 935
Spleen cathepsin 1301
Spleen cholesterol binding protein chromatin 94
Starch amylase induction Aspergillus 678
Sterol diet liver cholesterol 1
Stomach acetylglucosaminyltransferase mucin formation 1081
Stomach mucosa chymosin harp seal 699
Streptococcus capsule polysaccharide 151
Streptococcus capsule polysaccharide structure 1309
Streptococcus polysaccharide mol structure 666
Streptomycin protein formation Escherichia review 231
Structure polysaccharide Streptococcus capsule 1309
Subunit ribosome protein purifn sequence Halobacterium 426
Sugar transport insulin calcium review 1228
Surface array protein bacteria isolation review 1181
Surfactant interaction enzyme 55
Surfactant lung review 1121
Synthase hydroxymethylbilane inhibition cation hardness 49
Synthetase adenosylmethionine isoenzyme liver 276
Synthetase folylpolyglutamate liver 495
Synthetase prolyl tRNA Thermus 507
Synthetase uroporphyrinogen inhibition cation hardness 49
T lymphocyte purine metab 577
Taurine retina degeneration review 535
TCDD iron ferritin liver microsome 1293
Teratocarcinoma differentiation DNA methylation 584
Testis fluid clusterin isoelec form 456
Thermodn model phospholipid bilayer 796
Thermodn trypsin Gadus 894
Thermogenesis adipose hormone receptor review 631
Thermogenesis brown adipose hormone review 623
Thermogenesis brown adipose metab review 618
Thermogenesis brown adipose review 610
Thermostability malate dehydrogenase Humicola Mucor 559
Thermostability prolyl tRNA synthetase Thermus 507
Thermus prolyl tRNA synthetase 507
Thrombin antithrombin heparin anticoagulant mechanism 975
Thrombin phospholipid metab platelet review 341
Tonin kinetics angiotensinogen 137
TPA CTP choline phosphate cytidylyltransferase 369
TPA glycosaminoglycan fibroblast skin 1354
Transcriptase reovirus switchon cation 162
Transcription termination regulation Escherichia 79
Transcription trout protamine gene promoter 291
Transferase diglyceride phosphocholine heart detergent 1059
Transferrin asialo resialylation liver 853
Transferrin oligosaccharide 19
Transferrin receptor metab erythropoiesis review 1246
Transferrin receptor phosphorylation reticulocyte membrane 927
Transport electrolyte carrier lipid membrane 738
Transport hexose activation antibody myoblast 245
Transport hexose antibody stimulation mechanism 255
Transport hexose myoblast membrane vesicle 1217
Transport hydrogen potassium Schizosaccharomyces ATPase 865
Transport nucleoside nitrobenzylthioinosine 1283
Transport phosphate Mycoplasma 1041
Transport proton Saccharomyces ATPase membrane 998
Tropomyosin assocn actin troponin 443
Troponin assocn tropomyosin 443
Trout protamine gene promoter transcription 291
Trypsin Gadus purifn kinetics thermodn 894
Trypsin inhibitor serum oligosaccharide compn 288
Tubulin microtubule purifn glycerol 803
Tubulin polymn interaction myosin filament 878
Tumor adrenal corticotropin adenylate cyclase 601
Uncoupling protein formation adipose ontogeny 479
Urecholine zymogen granule release pancreas 1288
Uridine metab hepatocyte erythropoietin 143
Urine estrogen pregnancy hypertension 547
Urogastrone epidermal growth factor tumor cell 1343
Uroporphyrinogen synthetase inhibition cation hardness 49
Vesicle asialoglycoprotein liver 1051
Vesicle membrane myoblast hexose transport 1217
Virotoxin Amanita actin polymn 1327
Virus herpes mRNA 35000 protein 266
Virus protein M N assocn liposome 1174
Vitamin A retina degeneration review 535
Wheat embryo germination RNA labeling 321
Wheat germ protein Ec Em 908
Wheat germin proteinase resistance 1351
Xenobiotic metab preneoplastic liver review 486
Yeast membrane potential potassium transport 865
Zygote differentiation Dictyostelium autoinhibitor 722
Zymogen granule release pancreas secretagogue 1288